



Waterford Institute *of* Technology  
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

# Higher Diploma in Science in Computer Science (Level 8)

## Summer School 2017

### Programme Handbook

**May 24 – June 27**

School of Lifelong Learning & Education  
Waterford Institute *of* Technology

ICT Skills Programme



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**Welcome from Dr. John Wall**  
**Head of School of Education and Lifelong Learning**



The changing expectations and demands from students, industry and government require all of us within WIT to take on new roles, innovative approaches and embrace new opportunities for learning enhancement. Recognising the rapidly changing landscape of higher education challenges all of us to respond in a proactive manner. One of the key themes of WIT's Strategic Plan is to facilitate our students' potential through empowering them to achieve their potential both while at WIT and beyond by ensuring graduates are responsible, informed citizens, capable of success in their chosen careers and recognised by stakeholders as such.

The School of Lifelong Learning and Education is delighted to host the Summer School as part of the Higher Diploma in Science in Computer Science ICT Skills Conversion programme in the ArcLabs Research & Innovation Centre in Carriganore. The summer school initiative affords opportunities for more collaboration between WIT and employers, in order to maximise resources and prepare graduates with the required competencies for the work place. Skills acquired from formal and non-formal are key for individual learning.

Businesses from across the region and staff from Telecommunications Software Systems Group (TSSG), which is an internationally recognised centre of excellence within WIT for ICT research and innovation will discuss a number of themes including; (i) Software Development, (ii) Data Analytics (iii) Social Media Platforms and (IV) Mobile App Development and Ecommerce Solutions.


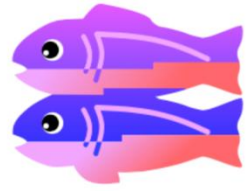


A handwritten signature in cursive script that reads "John Wall".

Dr John Wall

## Welcome to the new look ICT Skills Summer School.

This is the 5<sup>th</sup> year the summer school has run in Arclabs in Carriganore. In this year's version we will have variety of workshops, each with a distinct focus. These workshops will further evolve your core programming skills and explore areas we haven't encountered in the programme so far. They will also expose you to some of the Industry partners we work with on the Programme – giving you a flavour of their interests and opportunities. The intention of the Summer School is to give you the space and time to get into the discipline in more depth, without the pressing deadlines and assessments that have been part of your experience in semester 1.

Workshops

<p><b>Programme Guide</b></p>  <p>An outline of the Summer School programme, venue and schedule</p> <p>Eamonn de Leastar</p> <p>chat on gitter</p>	<p><b>Web Application Development Using Glitch</b></p>  <p>A short course exploring Javascript Web Application development using the Glitch service. The course will introduce the fundamentals of javascript use this knowledge learn the structure of Web Applications in Node and Express.</p> <p>Eamonn de Leastar</p> <p>chat on gitter</p>	<p><b>Agile Tools &amp; Techniques</b></p>  <p>A selection of workshop on modern software engineering tools and techniques, including Git &amp; Github, Agile Methods, Containerisation and the MEAN stack.</p> <p>Redhat Mobile, Waterford</p> <p>chat on gitter</p>	<p><b>Technical &amp; Professional Talks</b></p>  <p>A series of talks from our industry partners on interesting aspects of their work, organizations and emerging technologies.</p> <p>ICT Skills Industry Partners</p> <p>chat on gitter</p>
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On Tuesdays – ‘Web Development using Glitch’ - the session will be online, delivered as an Webinar. You can participate in this from home, or from the facilities in WIT if you wish. Wednesdays is a series of workshops from Redhat mobile, delivered in Arclabs. Thursdays will be our industry talks series, also in Arclabs. On the final Thursday June 22, a careers development workshop will run to begin your preparation for work placement.

We hope the experience will be rewarding and the content stimulating. We also hope that you can take advantage of the Arclabs location to meet and mingle with researchers, software engineers and entrepreneurs who work here. Indeed, you will find many past pupils of the ICT Skills programme!

Best of Luck

Eamonn de Leastar

## Summer School dates

**Wednesday May 24 – Tuesday June 27**

Venues:

Tuesdays – Home (online delivery)

Wednesdays, Thursdays - ArcLabs, Carriganore

Fridays – Lab chatroom

### May 2017

Sun	Mon	Tues	Wed	Thu	Fri	Sat
		Online	ArcLabs	ArcLabs	Lab chatroom	
<b>Week 1</b>			<b>24</b>	<b>25</b>	<b>26</b>	
<b>Week 2</b>		<b>30</b>	<b>31</b>			

### June 2017

Sun	Mon	Tues	Wed	Thu	Fri	Sat
		Online	ArcLabs	ArcLabs	Lab chatroom	
<b>Week 2 (cond)</b>				<b>1</b>	<b>2</b>	
<b>Week 3</b>	<b>Bank Holiday</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	
<b>Week 4</b>		<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	
<b>Week 5</b>		<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	
<b>Week 6</b>		<b>27</b>				

## Overall Programme Schedule

The summer school will run over a 5/6 week period commencing on Wednesday, **May 24, 2017** and concluding on Tuesday June 27.

### Schedule:

- Tuesdays:** 9:30 - 11:00 am Live Online Webinar Moodle/Adobe Connect
- Wednesdays:** 9:30 am – 11:30 am Skills Studio in ArcLabs\* (10am start on Wed May 24 only)
- Wednesdays:** 2.00 - 4.00 pm online Lab Chatroom Gitter/Slack
- Thursdays:** 10:00 - 12:30 pm Seminar series with Industry speakers – ArcLabs Careers Development Skills workshop (June 22)

<b>*Skills Studio - Wednesdays</b>			
<b>Date</b>	<b>Venue</b>	<b>Content</b>	<b>Delivered by</b>
<b>May 24</b>	ArcLabs boardroom	Git Session (introduction level)	Jason Madigan & Ger Ryan
<b>May 31</b>	ArcLabs boardroom	Agile Talk	Leigh Griffin
<b>June 7</b>	ArcLabs boardroom	Containers talk, Docker / Kubernetes basic intro maybe going as far as Dockerising one of their applications	David Martin & Craig Brookes
<b>June 14</b>	ArcLabs boardroom	MEAN Stack introduction and concepts	Michal Ogrodniczak
<b>June 21</b>	ArcLabs boardroom	Git Session (advanced session)	Jason Madigan & Ger Ryan

There will be **no scheduled engagements on Mondays** however students are invited to consider the following activities:

- Continue with programming / web app development
- Potentially follow up and interact with TSSG Researchers and local companies
- Read and think! (with a bit of learning!) FTG24 in the main campus will be available on these days should you wish to use WIT facilities
- Commence placement preparation through developing your CV, LinkedIn Profile and start NETWORKING!!

## Seminar Series Speaker Listing

Seminar Series - Thursdays : May 25 and June 1, 8, 15		
Name	Company	Date
Gerard Kehoe/ John Daly	<b>CGM</b>	May 25
Aine De Leastar/Michael Foy	<b>Fundrecs</b>	May 25
Claire Kelly	<b>SE2</b>	May 25
Bernard Butler	<b>TSSG</b>	May 25
Brian Robinson	<b>Dataworks</b>	Jun 1
Ger Henderson	<b>TSSG</b>	Jun 1
Justin Kearns	<b>Tucr</b>	Jun 1
Padraig Howlin	<b>Donedeal</b>	Jun 1
Conor Walsh/Dave Dineen	<b>Onaware</b>	Jun 8
Leigh Griffin	<b>Redhat</b>	Jun 8
Austin Cunningham/ Damien Murphy	<b>RedHat</b>	Jun 8
Paul Savage	<b>Nearform</b>	Jun 8
Brendan O'Hara	<b>110%</b>	Jun 15
Sophie Renshaw	<b>Errigal</b>	Jun 15
Eric Robson	<b>TSSG</b>	Jun 15
Shane McCormack	<b>Sunlife</b>	Jun 15

The full speaker schedule is listed on the following pages:

<b>Career Development Skills Workshop/Introduction to Work Placement options</b> <b>10:00 - 12.30 pm</b> <b>ArcLabs Boardroom</b>	Joan Mangan ICT Placement Co-ordinator  Leigh Griffin - Engineering Manager, Redhat	June 22
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Date/Time	Presenter	Organisation	Topic
<b>Week 1 - Thursday May 25</b>			
10:00 – 10:30	Gerard Kehoe /John Daly	CGM	'IT roles in CGM & Managing process improvements'
10:30 – 11:00	Aine de Leastar/Michael Foy	FundRecs	'Entering the Workplace 101'
<b>Q&amp;A &amp; Teabreak</b>			
11:30 – 12:00	Claire Kelly	Se2	'SE2– Our Mission and Vision'
12:00 - 12:30	Bernard Butler	TSSG	'Challenges of the Internet of Things and Big Data'.

Date/Time	Presenter	Organisation	Topic
<b>Week 2 - Thursday June 1</b>			
10:00 – 10:30	Brian Robinson	Dataworks	'Redefining Possibilities - a day in the life of a Custom Software Development Company'
10:30 – 11:00	Ger Henderson	TSSG	'The Story of the TSSG working for a Silicon Valley Mobile Security Company'
<b>Q&amp;A &amp; Teabreak</b>			
11:30 – 12:00	Justin Kearns	TUCR	'Getting in gear with a Start-up'
12:00 - 12:30	Pdraig Howlin	Donedeal	'Keeping the Lights on at Donedeal'

Date/Time	Presenter	Organisation	Topic
<b>Week 3 - Thursday June 8</b>			
10:00 – 10:30	Conor Walsh/Dave Dineen	Onaware	'Identity in the real world' – A look at Identity and Access Management in today's world'
10:30 – 11:00	Leigh Griffin	Red Hat	'The Agile Engineer - Software Engineering in 2017'
<b>Q&amp;A &amp; Teabreak</b>			
11:30 – 12:00	Austin Cunningham/Damien Murphy	Red Hat	'Out in the wild! Computer Science Intern experience - transition from HDip programme to software engineering'
12:00 - 12:30	Paul Savage	Nearform	"Moore's Law - the battle continues".



<b>Date/Time</b>	<b>Presenter</b>	<b>Organisation</b>	<b>Topic</b>
<b>Week 4 – Thursday June 15</b>			
10:00 – 10:30	<b>Brendan O’Hara</b>	<b>100%</b>	<b>‘How A.I. is likely to affect the workplace’</b>
10:30 – 11:00	<b>Sophie Renshaw</b>	<b>Errigal</b>	<b>‘Errigal - Who we are and What we do’</b>
Q&A & Teabreak			
11:30 – 12:00	<b>Eric Robson</b>	<b>TSSG</b>	<b>‘Disruptive Technology’</b>
12:00 - 12:30	<b>Shane McCormack</b>	<b>Sunlife</b>	<b>‘Managing a multi-site development team’</b>

## Speaker Biographies





## Gerard Kehoe - CGM

### General Manger



#### Company Profile:

CGM, LLC is a software development firm that designs, develops, and delivers software systems and outsourced solutions to Telecom Service Providers in the United States. CGM has developed a wide variety of Revenue Assurance and Cost Analysis software systems, which automatically audits and generates credit requests for Wholesale Telecom Invoices; provides customized Collection and Management Reporting for billing; and provides editing, auditing, and tracking of Lifeline Reimbursement requests. In addition CGM offers many customized solutions involving provisioning, Help Desk, and product line profitability analysis.

The main functions of the Irish operation in Waterford include quality assurance, testing, project planning and support development activities for CGM's online enrolment and auditing systems.

**Personal Profile:** Gerard has been in his role from March 2016 to present. His duties include the creating, staffing and managing the CGM Office in Ireland. Previously he was Director of IT at Sun Life Ireland and then Delaware Life from 2005 to 2016, which involved managing all Analysis needs for the Annuities and Life US business. He also worked as a Senior Software Engineer with Ericsson from 1998-2005, which involved QA and BSA roles on both AXE and mobile platforms. Gerard graduated with a degree in Applied Computing from Waterford Institute of Technology in 1998 and also completed a Diploma in Project Management from Institute of Project Management of Ireland in 2016.

#### Contact Details:

**Address:** ArcLabs, WIT West Campus, Carriganore, Waterford.

**Web:** <https://www.cgmlc.net/>

**Email:** [Gerard.kehoe@cgminc.com](mailto:Gerard.kehoe@cgminc.com)



## John Daly - CGM

### Senior Project & Release Planner

#### Company Profile:

CGM, LLC is a software development firm that designs, develops, and delivers software systems and outsourced solutions to Telecom Service Providers in the United States.

CGM has developed a wide variety of Revenue Assurance and Cost Analysis software systems, which automatically audits and generates credit requests for Wholesale Telecom Invoices; provides customized Collection and Management Reporting for billing; and provides editing, auditing, and tracking of Lifeline Reimbursement requests. In addition CGM offers many customized solutions involving provisioning, Help Desk, and product line profitability analysis.

The main functions of the Irish operation in Waterford include quality assurance, testing, project planning and support development activities for CGM's online enrolment and auditing systems.

#### Personal Profile:

John has been in his role from August 2016 to present. His duties include the gathering requirements and planning software releases at CGM. Previously he was Business Analyst and Team Manager at Sun Life Ireland and then Delaware Life and SE2 from 2008 to 2016, which involved Business Analysis and Testing needs for the Annuities and Life US systems. John graduated with a degree in Business Information Systems from University College Cork in 2006.

#### Contact Details:

**Address:** ArcLabs, WIT West Campus, Carriganore, Waterford.

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**Email:** [John.Daly@cgminc.com](mailto:John.Daly@cgminc.com)





## Software Developer

Having completed a Bachelor's Degree in Social Science, major in Social Policy and minor in Sociology in 2013, I found it very difficult to get a job in my chosen field outside Dublin. Having a lifelong interest in computers and technology, that I had never acted upon officially, I decided to succumb to advice received from a well-informed relative and applied for the Higher Diploma in Science in Computer Science. I loved the course, found it tough going but have fared well landing a fulltime position from my internship with FundRecs and now work alongside a fellow graduate from the course, Claire Hennebry.



In our company we use Groovy on Grails and JQuery along with SQL databases to build financial reconciliation software on the cloud using Amazon Web Services. Part of my internship is/was to develop a Proof of Concept of a new module for two clients, and at the time of writing this it is still ongoing. It is really interesting, engaging work which keeps me on my toes and helps me to constantly learn and evolve the tech side of my brain. Having not come from a technological background at all I've found it surprisingly easy to adjust to the environment and work and couldn't imagine myself in any other field than IT now.

### Contact Details:

**Address:** ArcLabs Research & Innovation Building, WIT West Campus, Carriganore, Co. Waterford

**Web:** <https://www.fundrecs.com>

**Email:** [aine@fundrecs.com](mailto:aine@fundrecs.com)



**Claire Kelly - se2  
Manager IT & Analysis**

**Company profile:**

SE2 is a leading technology and third party administration company focused on the North American life and annuity insurance industry. SE2 has an unmatched track record in optimizing back-office operations to future-proof insurance companies. SE2 combines peerless industry domain knowledge with a leading-edge administration technology platform to help clients launch products rapidly, improve efficiencies, shift to a variable cost model and maximize profits while dramatically improving the customers' experience. SE2 supports more than 20 direct clients, represents more than 35 carriers in North America and services more than 1,000 life and annuity products. SE2 has approximately \$100 billion in assets under administration and has been recognized as an industry-leading innovator.

**Personal Profile:**

Claire Kelly is Business Analysis Senior Manager at SE2 leading a team of associates in Ireland and across the US. She has over fifteen years' experience in the Financial Services industry focusing on IT solution and design. Prior to joining SE2 she worked in various IT roles in Waterford Institute in Technology, Dawn Meats Group, Sunlife Financial and Delaware Life. She graduated with honours and was awarded a BA in Economics and Computer Science and an MSc in Computer Science from University College Cork. In addition to her management, solutionist and designer role she is also a wife, mother and mentor. On the rare occasion that she has spare time she really likes writing about herself in the third person!

**Contact details:**

Web: <http://se2.com/>

Email: [Claire.Kelly@se2.com](mailto:Claire.Kelly@se2.com)



**Bernard Butler - TSSG**  
Senior Researcher TSSG



TSSG is an internationally-recognised centre of excellence for **ICT research and innovation**. It carries out a wide spectrum of industry-informed research in Information and Communications Technologies (ICT), particularly technologies enabling communications and information services.

Its technical research areas include Mobile Platforms and Services, Data Analytics and Social Computing, Adaptive Networks and Services, Emerging Network paradigms and Augmented and Virtual Reality (AR/VR). TSSG creates economic impact by translating its knowledge and innovation into leading edge products and services, engaging with Industry in collaborative R&D, knowledge generation and transfer.

Over the past five years, TSSG delivered innovative solutions to over 210 start-ups based in Ireland and has worked extensively with multinationals such as IBM, Intel and Cisco through its world class research programmes, such as the Science Foundation Ireland (SFI) Connect Centre. TSSG has also created 14 spin out companies, including the award-winning FeedHenry, a ground-breaking mobile cloud platform company (acquired by RedHat NYSE: RHT in 2014 for €65 million), KodaCall a new ‘Click to Call’ Technology and Immersive VR Education, a leader in Virtual Reality education technologies, such as the award-winning Apollo 11 experience.

#### **Personal Profile:**

Bernard is a postdoc in the Emerging Networks Laboratory, currently (co-)supervising 4 PhD students and assigned to the SFI-funded CONNECT Research Centre. *Current* research interests include

- resource management in networks (especially near the network edge)
- performance modelling and prediction of networks and systems (e.g., in fog computing),
- knowledge engineering (e.g., for rule-based system specification and optimisation),
- machine learning (e.g., for deriving control actions from network and system monitoring data),
- ensuring privacy and other user rights are maintained as data is collected and used (e.g., from IoT sensors)

Bernard has an MSc in Applied Maths from UCC and an MSc in Communication Software from WIT. His PhD thesis related to specifying access controls in IT systems, predicting their performance, and using this knowledge to specify better access controls.

**Contact:**     [www.tssg.org](http://www.tssg.org), +353 51 84 5695, [bbutler@tssg.org](mailto:bbutler@tssg.org)



**Brian Robinson - Dataworks  
Owner Dataworks Ltd Ireland**

**Company Profile:** Dataworks applies technology to drive real change, improved efficiencies and cost reduction for its customers. We redefine possibilities – what’s possible with technology, and what’s possible in your organisation by the correct application of technology to continuous improvement initiatives. Dataworks uses a unique hybrid

of custom software solutions and market leading commercial off the shelf software to deliver innovative solutions to our clients, including automation, manufacturing intelligence, mobile and cloud based solutions.

**Specialties:** Software Development, Software Validations, Continuous Improvement through the application of technology, Business Process Automation.

**Personal Profile:** For the last fifteen years Brian has been one of the main Project Management resources at Dataworks. Projects have ranged from small internal software development projects to large inter-department business re-engineering projects. Brian’s experience gained from working with many diverse companies coupled with his knowledge of software development and his inherent problem solving ability gives him a unique perspective. For over fifteen years Brian has been designing Software Systems that not only meet the user requirements but do so in a user-friendly and intuitive way. He has been trained in various methodologies including UML and has developed the templates and procedures that are used in Dataworks. Although not involved as much in development Brian has many years of experience mainly using Microsoft Visual Basic from version 3 up to .Net 2008. His specialties include: Business Process Automation, SPC Integration, Microsoft Dynamics CRM Design and Implementation.

**Contact Details:**

**Address:** Unit 4i, Six Cross Roads Business Park, Waterford, Ireland

**Web:** [www.dataworks.ie](http://www.dataworks.ie)

**E-mail:** [brobinson@dataworks.ie](mailto:brobinson@dataworks.ie)



## **Ger Henderson - TSSG Telecommunications Systems Software Group**

### **Senior Verification & Validation Engineer**



#### **Organisation Profile:**

TSSG is an internationally recognised centre of excellence for **ICT research and innovation**. We carry out a wide spectrum of industry-informed research in Information and Communications Technologies (ICT), particularly technologies enabling communications and information services.

Our four key prioritised technical Research areas include Mobile Platforms and Services, Data Analytics and Social computing, Adaptive Networks and services, Augmented and Virtual Reality (AR/VR). We create economic impact by translating our knowledge base and innovation into leading edge products and services by continuing our engagement with Industry in collaborative R&D, knowledge generation and transfer.

Over the past five years, TSSG has delivered innovative solutions to over 210 start-ups based in Ireland and has worked extensively with multinationals such as IBM and Cisco through its world class research programmes, such as the Science Foundation Ireland (SFI) Connect Centre. TSSG has also created 14 spin out companies in the South East including the award winning FeedHenry, a groundbreaking mobile cloud platform company (acquired by RedHat NYSE: RHT in 2014 for €65 million), KodaCall a new ‘Click to Call’ Technology and Immersive VR Education a leader in Virtual Reality education technologies and also experiences such as the award winning Apollo 11 experience.

#### **Personal Profile:**

Ger has worked in the TSSG research centre for over 11 years, and is responsible for Software Process and Software Testing. Previously Ger was employed with Ericsson from 1994 – 2005 as a Senior Mobile Telecoms Engineer.

Ger holds a Bachelor of Engineering (BEng), Electronic Engineering degree from Dublin City University (DCU), and was further awarded a Master of Engineering (MEng), Electronic Systems from DCU.

**Web:** [www.tssg.org](http://www.tssg.org)

**Email:** [ghenderson@tssg.org](mailto:ghenderson@tssg.org)



**Justin Kearns - TUCR  
Co-Founder Tucr**



**Company profile:**

Tucr - A simple & secure way of reserving items and services with deposit payment.

Justin is co-founder of Tucr.io a finance technology company; 2017 Google Adopt a Start-up semi-finalists, Sunday Business Post top 100 start-up, Web Summit Alpha Startup & New Frontiers graduates.

**Personal Profile:**

Justin is an ambitious and driven business professional with diverse experience across a number of industries. He loves innovation and technology and is very interested in collaborating with others in the growing Irish start-up scene.

Justin has been the Managing Director of Shadow Marketing Ireland since September 2013 and was previously in the role of Regional Technical Sales Manager Australasia with Trustwater, based in Sydney, Australia.

He was awarded a BSc in Computer Aided Manufacturing from Waterford Institute in 2010, and also holds a Professional Diploma in Online and Digital Marketing, (2011).

**Address:** The Boxworks, Patrick Street, Waterford

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# DoneDeal



**Padraig Howlin - DoneDeal**

**Head of Engineering**

**Company Profile:**

DoneDeal is Ireland's leading web site for buying and selling things second hand. The idea for DoneDeal.ie came up when Geraldine & Fred moved back to Ireland in 2004 after living in Sweden for a couple of years. They were looking to buy some second hand furniture for our new house. They could not find any good Irish web sites with high quality classified ads, and so the idea of DoneDeal was born. The web site was launched in June 2005, and it is growing fast since then. You can follow our traffic stats on <http://www.irelandmetrix.ie/topsites.html>. Specialties: Buy and sell anything second hand.

**Personal Profile:**

Padraig is currently the Head of Engineering at Donedeal following a stint as a mobile team lead. He had previously worked for Sunlife Financial as a Front end developer. Padraig was awarded a Master in Computing (Enterprise Software Systems) at Waterford Institute of Technology in 2015.

**Address:** Wexford Town, Wexford Ireland

**Web:** [www.donedeal.ie](http://www.donedeal.ie)

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## Conor Walsh - Onaware



### Company Profile:

Onaware specialises in Identity and Access Management (IAM) technologies. We provide advice at all stages of an IAM project from initial strategy through integration/implementation and ongoing support services. This aligns our interest with the long term success of our customer's IAM implementation. We are committed to delivering successful projects based on our key values of innovation, partnership and transparency. Our clients include many of the world's leading financial services organisations.

We use a range of proprietary tools developed over years of implementation experience to accelerate timescales and reduce risk for our customers.

Onaware was originally the European centre of IdM excellence for Mycroft Inc, a leading US-based managed security services provider. Following a successful MBO of the business in April 2013, the company was rebranded as Onaware.

### Personal Profile:

Conor has been a full stack developer at Onaware since 2012. He graduated with an MSc in Computing (Communications Software) from Waterford Institute of Technology in 2012. He also completed a BSc (Hons) in Computer Forensics at Waterford Institute of Technology in 2011. Conor works as part of Onawares R&D team. He spends the majority of his time developing analytics based web applications for use in Identity Access Management. His specialities include Groovy, Grails, JavaScript, Java, MongoDB, MySQL and Agile Development.

**Address:** 4<sup>th</sup> floor, Maritana Gate, Canada Street, Waterford

**Web:** <http://www.onaware.com/>

**Email:** [conor.walsh@onaware.com](mailto:conor.walsh@onaware.com)



### **Company Profile:**

Onaware specialises in Identity and Access Management (IAM) technologies. We provide advice at all stages of an IAM project from initial strategy through integration/implementation and ongoing support services. This aligns our interest with the long term success of our customer's IAM implementation. We are committed to delivering successful projects based on our key values of innovation, partnership and transparency. Our clients include many of the world's leading financial services organisations. We use a range of proprietary tools developed over years of implementation experience to accelerate timescales and reduce risk for our customers. Onaware was originally the European centre of IdM excellence for Mycroft Inc, a leading US-based managed security services provider. Following a successful MBO of the business in April 2013, the company was rebranded as Onaware.

### **Personal Profile:**

I am an IT Security professional with over 10 years of experience in varied roles within the sector. I left university (for the first time) in 1997, just at the beginning of the IT boom in Ireland (my class was the first one where everyone got jobs!) My first job was as a C++ programmer for Baltimore Technologies, an Irish security firm specialising in PKI. This work centred on building a PKI toolkit API. Baltimore Technologies was once the darling of the Irish IT scene, at one point having a market cap exceeding British Airways. As Baltimore was expanding rapidly there were opportunities for promotion and I soon found myself the team lead for 10 programmers based in 4 different countries. Unfortunately, Baltimore fell victim to the dotcom bust and is no more. After this I spent 2 years working as a security consultant with Clearstream, a large Luxembourgish bank. In 2004, on a costly whim, I decided to go back to University and spent 7 years getting a PhD in Philosophy. After this lengthy diversion, having secured a position with Onaware in early 2012, I again began working within IT security.

Onaware specialises in Identity Governance and Administration (IGA). Among other things, this involves answering the question: "who has access to what?" for large organisations. To solve this problem Onaware integrates world leading IGA applications, such as Sailpoint's IdentityIQ, into the organisation. These applications "connect" to all the IT end point systems in the organisation and aggregate this data into a central repository where it can be analysed. Once the identity data is in one place then the user's access can be certified. Additionally, it is possible to manage the identity lifecycle for the users: Joiners, Movers, Leavers, Access Request.

**Address:** 4<sup>th</sup> floor, Maritana Gate, Canada Street, Waterford

**Web:** <http://www.onaware.com/>

**Email:** [dave.dineen@onaware.com](mailto:dave.dineen@onaware.com)



**Leigh Griffin - RedHat**

**Engineering Manager**

**Company Profile:**

RedHat is the world's leading provider of open source solutions

We help more than 90% of Fortune 500\* companies to solve business challenges, align their IT and business strategies, and prepare for the future of technology. We do this by providing secure solutions through an open business model and an affordable, predictable subscription model.

**Personal Profile:**

Leigh holds a PhD in Computer Science from Waterford Institute of Technology and has a strong academic, research and industry background built up over the past 10 years. Leigh is currently an Engineering Manager with Red Hat Ireland, working for the Mobile Engineering team based out of Waterford. Leigh has previously worked as a Development Team Lead for the Waterford Lab of Primeur Ireland and held the role of Senior Software Engineer in SunLife Financial and the TSSG. His current work is in the mobile application area, working on continuous improvements within the platform and helping to drive the adoption of an Agile methodology across the team.



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**Paul Savage - nearForm  
Chief Operations Officer, nearForm; mobile  
technology visionary; tech start-up founder**

**Company Profile:**

Founded in 2011, nearForm is a global software company whose mission is to transform the way that software is built. We deliver the expertise and software tools that enterprises need to achieve success in their Node.js and microservices projects.

nearForm is headquartered in Ireland with staff across Europe, North America, Canada and South Africa.

nearForm is the world's largest and longest established Node.js company. The company has shipped over 50 production Node.js systems to date. nearForm experts leverage their deep experience to develop open source tools, including Seneca.js, our enterprise system engineering toolkit, and nScale, our microservices deployment system. We also provide training, consulting, technical support, certification and engineering services.

**Personal Profile:**

Paul is a graduate of the Bachelor of Electronic Engineering degree programme in UCD (1991).

He is currently in his fourth year as CEO of nearForm. Previously, Paul has worked as Communications and Project Centre Manager in TSSG research centre, followed by a six year period as CEO in Zolk C.

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**Austin Cunningham - Redhat**

**Software Engineering Intern**

**Company Profile:**

Red Hat is the world's leading provider of open source software. Red Hat Mobile spun out of an acquisition of FeedHenry. FeedHenry was a Tech startup in TSSG.



Red Hat Mobile's primary product at this time is the Red Hat Mobile Application Platform (RHMAP). This allows customers to build cross platform mobile applications. It has a simple drag and drop interface for styling the application. It has a built in backend and hosting options. The Platform can be used directly as a development environment.

**Personal profile:**

Red Hat Mobile has a number of departments. The largest is Engineering followed by Consulting, DevOps and Application Support. I work in Engineering.

**Bio:** My original background was in Science and Applied Physics. I worked in IT for a number of years after college. I worked in Technical Support for a number of companies. I moved home to work in the family business which was construction until the crash. Then moved back to IT and Technical Support for a number of years. Felt it was time for a change and was looking to get into Software Development so I applied for the Springboard course.

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## **Damien Murphy - Redhat**

### **Software Engineering Intern**

#### **Company Profile:**

Red Hat is the world's leading provider of open source software. Red Hat Mobile spun out of an acquisition of FeedHenry. FeedHenry was a Tech startup in TSSG.

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#### **Personal Profile:**

My own background is in business and marketing. I spent the initial part of my career in management, and then subsequently as a business analyst. After an unanticipated period out of the job market I decided to switch career focus. In 2015 I began to teach myself to code, and discovered the Higher Diploma in Computer Science later that year. Software has been my passion ever since.

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## **Brendan O'Hara - 110%**

### **Co-founder of 110%:**

#### **Company Profile:**

Co-founder of 110% : helping people understand themselves better using AI and human support.

People are connected with other people (Personal Accelerators) who are high in EQ and who coach them whilst at work.

110% uses AI to learn from what people have done before to help people make better decisions for themselves going forward.

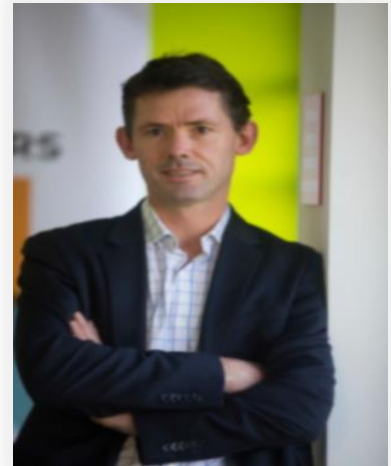
110% had its first client in Feb 2016 and is now in profit.

#### **Personal Profile:**

Brendan spends most of his time managing the development of a web platform supported by mobile apps to enable the everyday workings of 110%.

He is currently concentrating on 110%'s AI strategy and working with TSSG to collect and analyse data that will predict the best way to support each person.

He has 20 years' experience working on global trading systems for large Investment banks like Deutsche Bank and JPMorgan and has dabbled in a couple of start-ups.



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## **Sophie Renshaw - Errigal Test Engineer**

### **Errigal Factoids:**

Located in Silicon Valley

Founded in 1996

Telecom expertise sets our software apart

Extremely high quality and customer satisfaction

Mobile network management software and DAS NOC support



**Company Profile:** Headquartered in Silicon Valley, with a development office in Waterford, Ireland, Errigal delivers operations and support system (OSS) software to the mobile network industry. Since 1996, Errigal has developed a reputation for robust and trusted solutions in the Network/Fault Management, Performance Management and Configuration Management/Inventory arenas. Errigal is a specialist in Distributed Antenna System (DAS) Network monitoring. Our specialist monitoring software monitors more DAS nodes than anyone else in the business.

With substantial engineering expertise grounded in the telecom industry, Errigal has developed products and services that can be employed in multi-vendor, mission critical network environments.

**Personal profile:** Sophie Renshaw is a test engineer with Errigal. Sophie joined the company in June 2015 having completed her BSc (Hons) in applied computing at WIT. Sophie's main role is to design, develop, and execute test protocols for Errigal's suite of applications. This involves the implementation of User interface and acceptance test conventions, documentation, automated testing and the development of the next iteration of automated script-based testing.

Sophie is also involved in managing the architecture on which the applications run, including cloud based platforms such as AWS and datacentre environments running Ubuntu and Red Hat.

Languages & Technologies include: Groovy, Grails, Tomcat, MySQL, Java, Linux, Scrum, SOAP, REST, React.js, RabbitMQ, Ansible, GIT, GEB, Spock, AWS.

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**Eric Robson - TSSG  
Manager, Data Mining  
& Social Computing**

**TSSG**



**Research Unit Profile:** The Data Mining and Social Computing Research Unit focuses on accurately discovering the maximum amount of knowledge in the most efficient manner from increasingly large databases. To achieve this we research the full data analysis life cycle – from data gathering to data cleaning and warehousing through to modeling and presentation of results. This study is combined with research in Social Computing where we investigate methods for modelling social behaviour through computational systems. The team uses machine learning techniques combined with graph and matrix theory to build representations of social networks. These representations are further mined to give an insight of how people interact with existing ICT services and infrastructure in order to predict and shape the communication networks and services of the Future Internet. Recent successes in this area are in the launch of Spin-Out Company ZolkC which uses pervasive technology designed and developed in TSSG and the licensing of social network analysis software to Data Fusion International.

**Bio of Speaker:** Eric Robson was awarded a BSc (Hons) in Applied Computing from the Waterford Institute of Technology, Ireland, in 2002. In 2009 he completed studying part-time for an MSc in Communication Software at WIT and was awarded a first class honours degree. Mr. Robson joined the Telecommunication Software & Systems Group (TSSG) of Waterford Institute of Technology as a Senior Researcher in February of 2007. During this time he co-founded the Knowledge Discovery and Databases group and successfully collaborated with colleagues, both within the TSSG and in other similar organisations across Europe, to win over €1.2m of competitive funding. Eric's current role within the TSSG is as Research Unit Manager for the Data Mining and Social Computing group where he manages a team of researchers that investigates techniques in social network analysis, predictive analytics, data warehousing, context awareness and eLearning. His Specialties: Social Networking Analysis: network and matrix theory. Predictive Analysis: Classification, Clustering & Association rules mining. Data Warehousing: ETL, star and snowflake schemas. Semantic Analysis: Knowledge representations, Annotation, Meaning Discovery, Ontology matching.

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**Shane McCormack - Sunlife Financial**  
Director of Application Development at Sun Life Financial



**Company Profile:**

Sun Life Financial, is a leading global financial services organisation with 150 years experience. We provide a diverse range of wealth accumulation and insurance products. You'll find us just about everywhere including Canada, the U.S., the U.K., Ireland, Hong Kong, the Philippines, Japan, Indonesia, India, China, Australia, Singapore, Vietnam, Malaysia and Bermuda.

In Ireland, Sun Life Financial is based in the vibrant city of Waterford in the sunny South East. Employing 310 people (at December 31, 2014), our Waterford office provides software development, business administration and technical service desk services to our North American and International divisions.

**Personal Profile:**

Shane has over 14 years of industry experience in the J2EE world in both the telecommunications and financial sector. Specialties: Java 1-8, J2EE, JPA, Hibernate, Spring, MQ Series, SQL, JSP, Drools, Flex, CF, UML.....,

Shane graduated with a bachelor degree in Information Technology and Telecommunications from University of Limerick in 200, and he was further awarded a **MSc in Telecommunications and Software** at Waterford Institute of Technology in 2003.

Other qualifications: PRINCE 1 certification in Project Management.

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ICT Skills Programme

