Shane Tuohy

Education

2010–2015 (projected)   **PhD**, *National University of Ireland, Galway*.
My PhD work is concerned with the specific demands of using Ethernet technology to network the numerous digital cameras and associated back end vision and scene analysis sub-systems that will be deployed in the next generation of vehicles.

2012–2013   **Visiting Researcher**, *University of California San Diego*.
I spent 7 months working with Professor Mohan Trivedi at LISA (Laboratory for Intelligent and Safe Automobiles), working on real world implementations of automotive Ethernet networks.

2006–2010   **B.E Electronic & Computer Engineering**, *National University of Ireland, Galway*, *First Class Honours*.
My final year research project involved developing a novel automotive distance determination algorithm using OpenCV. This won the 2010 Avaya Award for Best Final Year Project and a research paper based on it was published at a peer reviewed conference.

Experience

2015 - Now   **Software Engineer**, *Cisco Systems*, Oranmore, Ireland.
I work on Ciscos next generation voice and video cloud collaboration technologies as a software engineer, with various devops responsibilities. My work has focused on high availability cloud services, serviceability, and voice and video solutions.

2015   **Research and Development Engineer**, *Netfort Technologies*, Galway, Ireland.
Netfort LANGuardian is a leading industry network monitoring tool, I worked on networking performance analysis, stress testing and improvement.

2014   **Web Developer**, *Level Four Research and Consultancy Limited*, Galway, Ireland.
I have been working on a contract basis on PHP web applications.
- MySQL and PHP development of new features in an MVC architecture
- Integration with commercial SMS APIs and designing automated email notifications

2009   **Research and Development Engineer**, *Netfort Technologies*, Galway, Ireland.
I spent 6 months working on all aspects of the LANGuardian project, an enterprise network monitoring tool.
While working at Netfort, I;
- Incorporated several new features into LANGuardian such as;
  - BitTorrent monitoring
  - Improved boot procedures
  - Extended hardware support
- Regularly assisted the support team to help answer customer questions.
- Worked on a small, dynamic engineering team in a variety of languages

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2008   **Programming Technician**, *ESB*, Lanesborough, Ireland.
I spent 3 months working primarily with Microsoft Office products to develop reporting tools as well as a live updating digital noticeboard.

Skills

- Programming in a wide variety of languages, from assembly to web applications
- Linux server administration experience
- Electronic Engineering background, including analogue, digital and FPGA design
- Excellent interpersonal, public speaking and written communication skills

Programming Skills

High Level	Python, Java, C++, PHP, C#	**Low Level**	ASM, C, FORTRAN, VHDL
DevOps	LXC, LAMP, Ansible, Jenkins	**Scripting**	bash, Perl, tcl
Frameworks	ns-3, OpenCV, Android, flask	**Tools**	EC2, git, CVS, SVN

Languages

English	**Native**
Irish	**Fluent**
French	**Intermediate**

Achievements and Awards

- 2010 Avaya Prize for Best Final Year Project
- Awarded Irish Research Council EMBARK EPS Scholarship
- Represented NUI Galway at varsity level in squash
- Produced, researched and presented multiple FM radio shows
- President of NUI Galway Computer Society for 2 years
- Founding member of NUIG Skeptic Society

References

- Mark McDonagh - HP Cloud Services (Formerly of Netfort Technologies)
- Dr. Martin Glavin - National University of Ireland Galway
- Liam Kilmartin - National University of Ireland Galway

Contact details available on request