

Niall Quirke

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Education

B. Eng. in Electronic and Computer Engineering

2014 - 2018

Dublin City University

Grade: 2.2

Specialized in Internet of Things in final year including modules such as:

- Algorithms and Data Structures in Java
- Object Oriented Programming in Java and C++
- Web Application Development with JavaScript, Java, Tomcat, SQL
- Linux: Hosting, Networking and Troubleshooting
- Mobile Robotics (Raspberry Pi, Arduino, Motors, Sensors)
- Data Communications and Networks (TCP, UDP, DNS, etc)
- Computer Architecture and Hardware Description Languages
- Embedded Systems and Circuitry with Assembly Code
- Digital Signal Processing

Leaving Certificate

2008 - 2014

Borris Vocational School, Borris, Co. Carlow

CAO Points: 465

Employment

Cloud Operations Engineer

2018 (present)

Amazon Web Services

- I'm a part of the AWS Managed Services team where we own and manage the AWS account and full infrastructure of many major international companies. We are completely responsible for the architecture, maintenance and security of everything up to the OS level, including change management, patching, incident response, alerts, automation, cost optimisation and security.
- My role has involved a lot of training and experience with AWS, Linux, Networking, Cloud Automation and Cloud Security and daily tasks usually involve the development of our teams tooling in OO Python and JavaScript or the automation of various, large enterprise scale, cloud infrastructure tasks using AWS CLI, AWS SDK, Boto3, CloudFormation, AWS Systems Manager, Lambda, Serverless Application Model, etc.
- My biggest achievement to date has been completely replacing our change management CLI interface with a much faster, simpler and more secure JavaScript interface by building several SigV4 API clients from scratch. This is now used daily by over 200 operation engineers in 5 sites globally.

Technical Support Engineer

2017 (6 mths)

Citrix Systems

- Solving technical cases for major international clients for the Netscaler ADC product.
- Several cases would be taken daily typically lasting up to 2 weeks including remote sessions with the customer, reproducing and troubleshooting the customers network in a lab environment and presenting solutions to teams of IT management.
- Included a lot of training in Networks and Access Control including a lot of work with SSL certificates, load balancing, content switching, analysing network traces and much more.
- Passed the Citrix Certified Professional in Networking (CCP-N) exam.

Personal Projects

Serverless Web Application: TradSessions.ie

A platform for finding, sharing and reviewing Irish traditional music sessions. The frontend is a mobile-first single page application stored on S3, distributed through CloudFront and built with the Vue.js framework. It uses Vuex to manage state, Axios to call API's and Nuxt.js to provide server-side rendering to improve SEO and initial load time. The backend is a set of serverless, infrastructure-as-code API's with enterprise standard infrastructure, management and deployment capable of scaling to millions of users and hundreds of developers while maintaining exceptional cost effectiveness and security. The full project write up can be found on my Github.

Google Chrome Extension: DoubleClicker

A chrome extension that lets you open links in new tabs by double clicking on them. Sick of right clicking and then clicking "open link in new tab" I built this app for myself more than anything. Mostly JavaScript involved. It can be found on the Chrome web store and has over 400 weekly users.

Passive NFC Environmental Sensor

My Final Year Project in college is to develop a passive Near Field Communication (NFC) sensor which can be permanently installed in locations without power supply or network connection and then read periodically via a NFC-enabled smartphone Android application. The project will involve designing the NFC 13MHz inductive loop circuit, a very low-power microcontroller and sensor hardware/software system, smartphone user-interface and NFC communications interface software.

Thump - Biometric ID for Nightclubs

A project to build a system that allows people to use their fingerprints as ID outside clubs. This would eliminate the need for bringing out passports and drivers licences and would allow users to skip the queue. Main tasks included a Windows C++ application to take fingerprints from a USB fingerprint scanner attached to a windows tablet and add to or check a database returning a user-friendly display. The project was accepted by the Tony Ryan Academy of Entrepreneurship program "UStart" where it was developed over summer.

Volunteer Work

10000Students.ie

I developed the backend tech for the website 10000Students.ie for the NGO Stand.ie after hearing they needed some help through a friend. 10000Students.ie is a platform for 3rd level students to learn about and take action on the UN's 17 Sustainable Development Goals (SDG's).

Friends of Calcutta

I occasionally help out with the Friends of Calcutta charity. Mainly helping to organise fund raisers and singing at some of their annual events both in Ireland and Calcutta.

Interests and Achievements

- AWS Solutions Architect Associate Certificate
- Citrix Certified Professional – Networking Certificate (CCP – N)
- Acceptance into the Tony Ryan Academy of Entrepreneurship program "UStart"
- Managing DJ gigs for 4 DJs in clubs and bars around Kilkenny and Carlow for over 5 years
- Producing dance music and managing a Facebook page with over 1200 followers
- Borris Vocational School Senior Business Student of the Year 2014
- Borris Vocational School Footballer of the Year 2011, 2014
- Full Irish Driving Licence 2015

Reference

Available on request.