

Andrew Campbell

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Technologies

Languages:

Ruby, Python, Javascript

Frameworks +

Platforms:

Rails, Angular, Android
Native

DevOps:

AWS (Elastic Beanstalk,
Elastic Container Service),
Docker

Methodologies and

Practices:

XP, TDD, Pair
Programming

education

2010–2014

First Class Computer Science BSc with year in industry

Placement at IBM from 2012 to 2013

The University of Leeds

2008–2010

BTEC National Diploma in IT

Specialised in software development achieved triple distinction (Equivalent to 3 A's)

Weston College

experience

Current Role

Chief Developer - Loyalzoo

Loyalzoo, London

Leading a small development team building a digital loyalty solution for independent merchants. Achievements include:

- Taking a monolithic PHP web app and making a gradual migration to a set of micro services built on Rails and hosted on an auto scaling AWS platform
- Implementing pair programming to improve code quality
- Prioritising work items based on business value to optimise the teams output
- Introducing TDD to improve structure + increase confidence when refactoring
- Developing a cross platform loyalty solution which is used by hundreds of merchants world wide to run their loyalty program

Summer 2013

Extreme Blue - IBM

IBM, Hursley

Developed a solution to help people care for family members suffering from dementia. The solution involved a tablet in the dementia sufferers home with an app which the carer could control remotely via a web interface. Detailed achievements:

- Designed and implemented a system that allowed the tablet to be controlled with Google Calendar events and in real time using XMPP
- Used a Raspberry Pi and infrared LED circuit to allow a television to be controlled through the web
- Gave weekly presentations on progress to the IBM Hursley lab

2012-2013

Software Engineer - WSRR IBM

IBM, Hursley

Worked in a Level 3 support team for Websphere Service Registry and Repository. Interacted with customers to resolve their issues in addition to creating product fixes. Also volunteered for "giveback" projects alongside my day job:

- Blue Fusion - Developed an activity for a week long event to teach students about sciences. I developed a solution to allow game logic written in Java and run on a laptop to interact with an Arduino.
- Smarter Skills - Project managed & developed a web based tool for tracking skills across the lab. Before my team took over the project it had not seen release despite two years of development. With my input it was released across the site and saw a large update after release.

other developments

Current

SaaS MQTT Brokers

Working on a solution to provide auto scaling brokers for the popular IoT protocol MQTT. This is hosted on top of the AWS ECS platform, the main challenges in this development are:

- Load balancing TCP network traffic
- Building in redundancy and detecting when a broker is failing
- Auto scaling the brokers to meet demand