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## EDUCATION

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<b>Lancaster, UK</b>	<b>Lancaster University</b>	<b>Oct 2011 – July 2015</b>
MSci Hons Computer Science (With Industrial Experience). 2.1		

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## EMPLOYMENT

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<b>Software Engineer</b>	<b>Expedia Inc.</b>	<b>Dec 2017 - Present</b>
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*Cloud Infrastructure Automation, Cloud Acceleration Team (CAT)*

- **Improve release agility and reliability.** Introduced new CI/CD pipelines with static code analysis enforcement to core cloud automation microservices.
- **Secure infrastructure.** Implementing security changes to each CAT-owned microservice so that all traffic is encrypted and all endpoints require authentication.

<b>Software Engineer</b>	<b>Royal Bank of Scotland</b>	<b>Aug 2015 – Dec 2017</b>
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*NatWest Markets, Syndicate*

- **Client Meetings.** Designed and implemented a solution that tracks client meeting activity. This was adopted by teams worldwide and is a key contributor to client relations metrics.
- **Syndicate Dashboard.** Modernized several legacy applications into a new AngularJS frontend/C# backend web-based solution – a golden source for deal-related information for primary markets.
- **Deal Monitor.** Created a C# Excel add-in solution that verifies impartial bond allocation, flags orders that break selling restrictions and processes sales credits based on performance.

<b>Software Engineer, Intern</b>	<b>DemoPad Ltd.</b>	<b>Jan 2015 – Mar 2015</b>
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- **Device Drivers.** Implemented device drivers in C++ and Lua to integrate lighting (Rako) and thermostat (Nest) control with DemoPad's flagship smart home automation processor – Centro8.
- **Apple Watch App.** Designed and implemented an Apple Watch application to leverage Centro8's smart home control and feedback capabilities.

<b>Technical Consultant</b>	<b>KitchPack Ltd.</b>	<b>Aug 2014 – Sep 2014</b>
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- **Marketing Strategy.** Discussed potential solutions with the owners to improve company awareness.
- **Web Scraping.** Used Scrapy/Python scripts to accomplish the agreed marketing strategy. Implementation saw sales increase by 35% over the first month and a noticeable increase in feedback via social media.

<b>Software Engineer, Intern</b>	<b>Lancaster University: InfoLab21</b>	<b>July 2014 – Sep 2014</b>
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*Knowledge Business Centre*

- **Consultation.** Worked closely with clients to scope their requirements into manageable projects and meet specific design and implementation needs.
- **Twitter Report Generator.** Created a bespoke web application with PHP/Laravel. This generated progress reports based on the client's customers' Twitter activity e.g. tweets, retweets, followers etc.

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## PROJECTS

- **[Football Quickscore.](#)** Snappy and responsive web application that shows team head-to-head stats across all leagues. Data is sourced from football-data.org's open API. ReactJS, JavaScript
- **Automated Spear-phishing System.** Designed and implemented a system that crafted spear-phishing email messages based on publicly available information to validate effectiveness. Python, Java, Scrapy.

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## Languages and Technologies

- *Proficient with: C#, Java, SQL, ReactJS, AngularJS, AWS, Microservices, Cloud Computing*
- *Experience with: JavaScript, Python, Lua, PHP, Objective-C*