## Summary

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### Location

Oxfordshire - UK

DevOps Engineer - Automating all the things 🤖

## Work

### DevOps Engineer - RISQ | Aug 2021

* AWS Cost optimisation and monitoring.
* Migration of low latency applications to containerised (OCI format) deployments.
* Automated access control across hybrid cloud and collocated servers. Using Ansible to configure role based access control, during the creation of machine images and against live systems.
* Immutable infrastructure approach to security updates - Using Packer for AWS [AMI](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AMIs.html) generation of a standardized *Golden AMI*
* Building an auto scaling CI/CD environment using Terraform to provision: infrastructure, networking and access policies. Templating AMIs for executing Builds with specific tool chains.

### Software Developer - Progressive Accessibility Solutions | Apr 2019

* Developing a SaaS solution - incorporating a Java, Golang and React stack
* Designing and implementing CI/CD for all components of the SaaS solution

### Technical Facilitator - CyberFirst - NCSC | Aug 2019 - Feb 2020

* Delivering training to 500+ 10-17 year olds, introducing them to a range of current cyber-security topics.
* Facilitating lab activities and acting as point of contact with guest speakers.

## Education

### Master in Science with Honours, Class I - University of Birmingham | Sep 2017 - Jun 2021

Computer Science:

* **76%** Masters Project - An Extensible Framework For Portable And Distributed Packet Capture
* **87%** Computer Security
* **84%** Team Project (Game development)
* **74%** Mobile and Ubiquitous Computing
* **73%** Computer Systems and Architecture
* **72%** Computational Vision
* **71%** Intelligent Robotics

### A levels - King Edward VI School | Aug 2016 - Jun 2017

* **A** Computer Science
* **A** Mathematics
* **B** Further Maths

### GCSEs - King Edward VI School | Aug 2015 - Jun 2016

9 GCSEs grade A-C, including Maths and English

## Skills

### DevOps - Advanced

Terraform, Docker, Git, Ansible, Kubernetes

### Backend Development - Advanced

Golang, Java, Python

### Systems - Advanced

Linux, Networking, Automation & Provisioning, AWS, GCP, Bash

### Web Development - Intermediate

HTML, CSS, Javascript, React, GatsbyJS

## Volunteering

### Organizer - HackTheMidlands | Jun 2019

* Helping to plan and organise an in person 24 hour hackathon with 250+ attendees.
* In 2020 moving online with over 700 attendees.
* Organisation of guest speakers across the extended online event.
* Tech lead for software developed to improve engagement at an online event.
* Company bookkeeping.

### Software Developer - Hackathons for Schools | Aug 2020

* Designed and built a cloud based platform to provide easy access to developer tools.
* Gave a workshop on the basics of web scraping.

### Software Developer - Lockdone (University of Birmingham) | Sep 2020

* Developed a suite of bots for Discord to improve management and engagement at an online event.