

JOSEPH KAVANAGH

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I am a recent Computer Science graduate from Durham University with a keen interest in DevOps. My interest in computers stemmed from my childhood where my father would always be taking apart and fixing electronics and eventually built my first PC with me. In my spare time I am either studying, spending time with friends, playing video games or messing around with applications on my home server. I am very interested in learning more about security and applying this knowledge; in fact, this was one of the main reasons I set up a pfSense firewall at home. Recently I have also been developing my knowledge of ansible, configuring my servers and the applications that they run with various scripts to enable things such as my personal home cloud that I can access via the pfSense VPN.

PROJECT HIGHLIGHTS:

- For the Software Engineering module at university, I setup the MySQL database hosting at OVH. Combined with this I setup Jenkins with GitHub webhooks to auto-deploy the website we were developing.
- Involved in a group coding project for an independent charity – this involved developing an app as well as a backend website to allow them to reduce the number of clients that they lose contact from.
- Developed a phishing detection solution for a company in the energy industry as part of a small team.
- In 2015, I won, a place at the Honeywell Leadership Challenge Association at the US Space and Rocket Centre in Alabama. We participated in many activities in which leadership and good team co-ordination were key components.

EDUCATION:

Durham University (2016-2020)

BSc Computer Science, First Class Honours.

Modules included *Software Engineering, Software Methodologies, Advanced Computer Systems and Digital Electronics, Theory of Computation, Parallel Programming, Networks and Systems.*

Final Year Project (Dissertation): *Snake-in-the-box. Implemented three different algorithms to solve the snake-in-the-box problem and compared the effectiveness of each*

The Champion School, Hornchurch (2009-2016)

4 A Levels:

A: Mathematics*

A : Further Mathematics, Biology and Chemistry

11 GCSEs

A: Computer Science, Mathematics, Physics, History*

A : Biology, Chemistry, English Literature, English Language, Classical Studies, Italian, Religious Education

CERTIFICATIONS:

Red Hat Certified Specialist in Ansible Automation

Certification ID: 200-171-080

Current until: December 7th, 2023

WORK EXPERIENCE:

Orb Data (August 2020-Present)

Orb manage the monitoring of systems/devices for various companies, primarily using IBM Tivoli. I have updated various systems and transitioned a few to new platforms/environments with the help of Ansible, Docker as well as Terraform. My role has also involved looking into the way things are currently being performed and designing/implementing ways to improve them through automation and version-control.

Flow (start-up) (Summer 2019)

Setting up the business' software using AWS services. They are a new company, aiming to provide a free app that anyone could download so that they can see whether a place that is subscribed to Flow is busy, in real time. I was involved in setting up the database to store all of the data and creating the backend API that the app talks to when it wants to retrieve data and setting up authentication on this so that each user can only see and edit what they need to. The business is still very early in development, so there isn't much publicly available about this company.

IBM, Hursley Park Road, Hursley, Winchester SO21 2JN (Summer Intern 2018)

Cyber Fundamentals program designed to develop strong cyber security related skills and experience. Included working with a company in the energy industry to develop a phishing solution.

Topics covered included:

- Internet and Hardware
- Networking
- Cyber Crime Industry
- Cloud architecture, management, and security
- Linux administration
- Defensive and Offensive Cyber
- JS/Python/C++/Bash

BCLP Law, Adelaide House, London Bridge, London EC4R 9HA (Summer 2014)

- Scheduling documents for off-site storage
- Populating Spreadsheets
- General office duties