

Christopher G. McIntyre

SOFTWARE ENGINEER · INSPIRED BY DEVOPS

Sheffield, United Kingdom

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Education

University of Sheffield

Sheffield, UK

B.S. IN COMPUTER SCIENCE

Sep. 2015 - Jul. 2018

- 2:1 degree classification.
- 68.5% average mark over all modules
- Thesis title: "Large Scale Time-Series Data Handling"

Bournemouth School

Bournemouth, UK

GCE ADVANCED LEVEL

Sep. 2009 - Jul. 2011

- A, A, B in English Literature, ICT, Mathematics

Skills

Soft	Public speaking, teaching, team/project management
Programming	Python, Bash, Golang, Rust, Elixir, JavaScript, C, C++, Java, Haskell
Tools	Linux, Git, Ansible, Docker, Kubernetes, OpenVSwitch, Junos, QEMU/KVM, Tmux, Vim
Languages	English, German (A1)

Experience

Ocado Technology

Hatfield, UK

INFRASTRUCTURE/NETWORK DEVELOPER

Sep. 2018 - PRESENT

- Created tooling to manage monthly rollouts of new data centers.
- Designed and implemented YANG-based configuration management application.
- Created CLI tool for creating virtual test environments to enable regression testing of network topology/configuration.

Buzzbomb.io

Sheffield, UK

BACKEND SOFTWARE ENGINEER (CONTRACT)

Sep. 2017 - Feb. 2018

- Built social media search engine powered by Elasticsearch
- Designed, implemented, and documented Django REST API
- Setup provisioning of production server using Ansible

Codethink Ltd.

Manchester, UK

SOFTWARE ENGINEER (PLACEMENT)

Jun. 2017 - Sep. 2017

- Was the lead developer on a small team developing internal Django app.
- Gathered requirements from across the business and produced technical specification for the project.
- Leveraged docker-compose to automate setup of development environment.
- Worked on backend REST api as well as frontend Vue application.

Plusnet Plc.

Sheffield, UK

STUDENT SOFTWARE ENGINEER (PLACEMENT)

Jun. 2016 - Sep. 2016

- Worked as part of a team to build a Spring Boot app for managing software releases.
- Automated the collection of relevant data from: CGit, Jenkins, and Atlassian JIRA.
- Created a deployment pipeline using Docker and Jenkins.
- Built a RESTful API that could be called to interact with collected data.
- Designed the schema for the MySQL database and set up Flyway database versioning.

Extracurricular Activity

Code First Girls

PYTHON INSTRUCTOR

Sheffield, UK

Sep. 2017 - Jan. 2018

- Designed and ran classes to teach fundamentals of programming using Python.
- Participated in community outreach to encourage more diversity in the University of Sheffield's tech scene.

HackSheffield

LEAD ORGANISER

Sheffield, UK

Feb. 2016 - Jul. 2018

- Worked with and lead a team of 6 to organise, run, and promote HackSheffield MLH hackathons.
- Reached out to companies and raised sponsorship funding for the first and second event.
- Helped to increase membership of the society from 0 to 250 members.
- Organised a trip for 8 people to compete in the HackUPC hackathon in Barcelona.

University of Sheffield Computer Science Society

FIRST YEAR REPRESENTATIVE

Sheffield, UK

Sep. 2015 - Jun. 2016

- Promoted Computer Science Society events to fellow first year students.
- Helped to organise and run the University of Sheffield's first Game Jam (a hackathon based around game development).
- Designed and ran 5 week 'Introduction to Linux' course for class of 20 students.

Projects

Pycadvisor

PYTHON 2/3

 [github](#)

Started Aug. 2016

A Python wrapper for Cadvisor's REST API - Google's Docker container monitoring tool. I've used an OOP approach where objects are directly deserialized from JSON. Testing is implemented using the Tox and Pytest frameworks.

Personal Router

DEBIAN LINUX, DHCPD, HOSTAPD

Started Jan. 2016

I am currently using a Raspberry Pi to host a wireless LAN for interacting with my devices. I am also hosting a DNS server and have set up the Raspberry pi as a personal access point to the University of Sheffield network.

Jumpdir

PYTHON 2/3, BASH, JSON

 [github](#)

Started May. 2015

A lightweight command line tool for quick navigation of a Linux home folder. Searching is sped up through regular caching of the home directory and user defined bookmarks.