

Canadian/British dual citizen, studying Artificial Intelligence at the University of Edinburgh, on track for a first class BSc (Hons)

WORK EXPERIENCE

Intern

Beatson Institute for Cancer Research

05/2016 – 05/2017

Glasgow, UK

Responsibilities

- Developed a visualisation tool for Hi-C chromatin interaction data. Using artificial intelligence, the tool calculates the optimum positions for the DNA strands in a 3D space, allowing for cross-referencing the location of DNA strands with other features. Worked in the summers of 2016 and 2017.

Junior Engineer

Extraordinary Managed Services

05/2015

Edinburgh, UK

Server hosting and management company

Responsibilities

- Assisted in all areas of the company, from building servers to writing scripts to automate statistics reporting, testing new software environments, developing a new Rails-based web platform and liaising with clients' in-house technicians to develop and maintain their systems.

Intern

Franklin and Marshall College

07/2013 – 07/2014

Lancaster, PA

Responsibilities

- Assisted researchers from the School of Biology with data acquisition and analysis in the summers of 2013 and 2014.

Intern

Skyscanner Ltd

08/2013

Edinburgh, UK

Responsibilities

- Spent time in a wide variety of departments, as well as learning about the scraping tools used to obtain prices from airline websites.

AWARDS

Medical Research Scotland Vacation Scholarship (05/2017 – 09/2017)

- Hi-C Visualization using Metaheuristic Optimization

Hack MIT (09/2016)

- Kensho prize for best political hack

Cancer Research UK Beatson Institute Internship (05/2016 – 09/2016)

University of Birmingham Hackathon (10/2014)

- Runner up hack

EDUCATION

Artificial Intelligence (BSc Hons.)

University of Edinburgh

09/2014 – 05/2018

3.83 equivalent GPA

RESEARCH INTERESTS

Big Data

Applications of Machine Learning

Political Science

Natural Computing

ACHIEVEMENTS

Participated in Edinburgh's Robot Football competition (01/2017 – 05/2017)

Focused on development of core strategy and vision components for a competing robot football team in the Informatics Department's annual tournament.

Organised Hack the Burgh (11/2015 – 04/2016)

Worked as a senior member of the organising committee for the University of Edinburgh's annual hackathon, Hack the Burgh. Chiefly responsible for legal work, co-ordinating junior members, and organising volunteers on the day

PROGRAMMING LANGUAGES

Python

Advanced knowledge. Frequently used in university coursework, as well as hackathons and personal projects

C++

Advanced knowledge. Hi-C visualisation tool was built entirely in C++ over 10 months full-time

Matlab

Very familiar. Used in several honours courses, as well as to analyse results during summer internships.

Java

Very familiar. Used for coursework, as well as for the Informatics Department's robot football competition. Achieved 100% in 1st year Java course.

Haskell

Familiar. Used for multiple university courses.

Ruby

Familiar. Used during summer job in 2015 to develop a Rails-based web platform.

C

Familiar. Used for multiple university courses.

HACKATHONS

University of Birmingham - 2014

Prizewinner

University of Birmingham - 2015

Attendee

University of St Andrews - 2016

Attendee

University of Edinburgh - 2016

Organiser

MIT - 2016

Prizewinner with full scholarship

University of Pennsylvania - 2017

Full Scholarship

University of St Andrews - 2017

Attendee

Facebook London - 2017

Full Scholarship