

## EDUCATION

**Imperial College London**, Computing (2016-20)  
**Saffron Walden County High School**, GCSE / A-level (2009-16)  
*A\*A\*AA at A-level, 6A\* 5A at GCSE*

## WORK

**Credit Suisse**, Intern Software Engineer (April – September 2019, London)

- Worked for five months in the Technology division at Credit Suisse, spending time on three main projects
- Used Elastic and Redis as part of a data caching project to rewrite one of the company's global static data stores, ensuring proper data replication and automatic failover and recovery
- Was one of the three engineers behind the 2019 Global Coding Challenge, a programming challenge used as a recruitment tool for graduate Technology roles. Entrants register through their university and submit answers to six coding puzzles via GitHub, which are then run against automated test cases and ranked. Ran in five regions worldwide, the challenge saw over 3,500 students sign up.
- Led a team of five interns to create a chatbot for trading desk staff, to provide trade status and information via the Symphony platform

**The Hut Group**, Intern Software Engineer (July – September 2018, Manchester)

- Spent twelve weeks in the Performance Marketing team, developing and updating several of the company's internal products
- Predominantly worked with Java / Spring Boot, and databases with MySQL, as well as a number of tools including SonarQube, Jenkins and Spacewalk

**Fire Tech Camp**, Tutor (July – August 2017, London)

- Tutored at two sites in London, teaching coding and video game design to children aged 9-12
- Planned lessons and worked closely with a co-tutor to deliver course content, and then presented the children's work to the camp at the end of each week

**Website design**, Freelance work (2016 – present, Haverhill)

- I designed and maintain the websites for Haverhill Community Sports Association and Newton David Ltd
- Both sites are professionally hosted and run on the Wordpress platform with custom theming. I also worked with a graphic designer for the HCSA, and manage the Google Maps and My Business listings, to ensure both have a strong online presence

## PROJECTS

**Aspect-Based Sentiment Analysis**, Third-year university project (Autumn 2018, London)

- Developed in collaboration with a software engineering team at Goldman Sachs, we investigated streamlining the research process of a portfolio manager by using natural language processing libraries to automatically parse news articles and documents to try to find data to support or refute the manager's investment thesis regarding a potential opportunity. We successfully implemented an aspect-based sentiment analysis pipeline, taking an input text and producing sentiment scores for named entities within the document, as well as highlighting any related articles that deviate from the recent trend for the specified topic of interest.

**ProsopagnosiApp**, Second-year university project (Summer 2018, London)

- Working alongside a supervisor from Microsoft, our team developed an app for sufferers of prosopagnosia to provide community support and medical advice on the condition. We then extended the app to use facial recognition and run on Google Glass, providing real-time identification of the user's friends and family. We were selected among the top projects in the year group.

**ARM11 Emulator and Assembler**, First-year university project (Summer 2017, London)

- A third term university project, in which our team wrote an ARM11 emulator and assembler in C, and then wrote programs to be assembled and deployed on a Raspberry Pi. We then extended the project to include an implementation of *Pong* running on the Pi, with no operating system; all libraries were written by ourselves. Selected among the top projects in the year.

## EXTRA-CURRICULAR

Hackathons – IC Hack, HackUPC Barcelona, LauzHack • Former media secretary and matchday programme editor, Haverhill Borough FC • Former webmaster, Imperial College Save the Children • Grade 5 piano • Jack Petchey Award winner