



Education

University of Birmingham

2017 - 2021

- BSc Computer Science with Year in Industry
- I achieved a **1st** during my first year

First Year:

- **Software Workshop:** built applications in Java using best practices
- **Functional programming:** learned how to build efficient programs using OCaml
- **Introduction to AI:** neural networks, machine learning, probabilistic AI, searching algorithms and reasoning
- **Other modules include:** Data Structures and Algorithms, Software Engineering, Language & Logic and Applied Psychology

Second Year:

- **Natural Language Processing:** learned tagging, semantics and pragmatics
- **Computer Vision:** taught how to process 2D images with MATLAB including edge detection and facial/object recognition
- **Computer Security:** I will learn about threats/solutions on the web and in apps
- **C / C++:** I will learn how to write advanced programs using C and C++
- **Other modules include:** Professional Computing, Reasoning and a future Team Project

Stanwell School (A Level)

2015 - 2017

- **A*** Computer Science **A** Mathematics
- **A** Welsh Baccalaureate **B** Physics
- Top 10 WJEC Computer Science, UK
- Stanwell Computer Science Award 2017

Westbourne School (GCSE)

2010 - 2015

- Achieved **5 A*s**, **5 As** and **1 B**
- Bronze Duke of Edinburgh award

Technical Skills

Languages

- Javascript / Typescript
 - React / React-Native
 - Redux / MobX
 - Node.js / Express
 - REST / GraphQL
 - Electron
- Python
- Java
- C / C++
- Assembly (X86, MIPS)

Cloud Services

- Amazon Web Services
 - EC2
 - RDS
 - S3
 - AppSync
- Firebase / Netlify

Design

- Sketch / Adobe XD
- Adobe Illustrator

Databases

- SQLite
- MySQL / MariaDB
- PostgreSQL
- MongoDB

Tools

- Git
- Docker
- Elasticsearch
- Cloudflare

Experience

We Build Bots

2018 - Present

- Built a Facebook Messenger bot for Bacardi using TypeScript and MongoDB
- Worked on a serverless natural language processing knowledge base in Python
- Created a front-end interface for the knowledge base with React, Redux and Express
- Learned the importance of company culture and being flexible in a startup environment

Carphone Warehouse

2016

- Worked in a 4-6 sized team as a customer consultant
- Gained insight in the importance of empathy and understanding towards customers
- Learned how to coordinate tasks with my team

Freelance Work

2014 - Present

- Last worked with a client on a desktop app using Electron, React and MobX
- Completed UI design work with several other clients

Code Club Volunteering

2016 - 2017

- I taught primary school children how to code with Python, Scratch and Raspberry Pis
- I learned how to explain difficult concepts and have patience with others

Projects

Feeling (Android App)

2018

- Currently building a smart mood tracking app using natural language processing techniques to understand mood patterns
- A small team are building the app using Java, TypeScript and GraphQL for the backend and AWS for hosting the server and data storage

DayNote (React Native App)

2017

- An open source daily journaling app, built for an online competition ran by Google
- Built using React Native, Firebase and ES6
- Learned time management and working under pressure

Revisify (Web App)

2015 - 2017

- A self-developed exam revision website used by 3000+ students and teachers
- Used Python with Flask, MySQL and JQuery, hosted on an AWS
- Learned the importance of readable, scalable and maintainable code.
- I also managed the marketing and finance

Interests

- I enjoy powerlifting and general health
- I play badminton weekly
- I love to learn and practice UI design