

EDUCATION AND QUALIFICATIONS

2013 - 2018: **Imperial College London, Electrical and Electronic Engineering MEng (2:1)**

2007 - 2013: **Ysgol Friars School, Bangor (A*AAB)**

WORK AND VOLUNTEERING EXPERIENCE

Sep 2019 – Present: **Associate Engineer, J Sainsbury PLC, London**

- Dec 2020 – May 2021: **SmartShop**
 - Predominantly worked on implementing the migration from using SmartShop's own Identity solution to a Sainsbury's wide one without disruption to customers
 - Operated primarily as a backend Golang engineer but also covered iOS and Android development
- May 2020 – Dec 2020: **Payments**
 - Backend development focused on Argos alongside facilitating merging with the Sainsburys team
 - Supported the completion of a payments orchestrator which all services would work through
- Sep 2019 – May 2020: **Argos Product Display Page**
 - Worked on the React webpage as well as on the Argos wide shared component library
 - Implemented a reworking of the reviews section on the page

Aug 2017 – Oct 2017: **Engineering Consultant, Climate Edge, London**

- Continued development of third year group project by training with actual data collected
 - Worked closely with the start-up, planning implementation for the project on the next prototype
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TECHNICAL PROJECTS

Mar 2020 - Mar 2021: **Graduate Scheme Betaworks Project – Argos Lockers Proof of Concept**

- Worked on an alternative collection proposition for Argos similar to Amazon's collection lockers
- Used an overly elaborate tech stack and architecture to maximise educational benefits
- Delivered and presented a working prototype that offered a full user journey demonstration with real data

Jan 2021: **Innovation Week Project – SmartShop Allergen & Dietary Constraints Proof of Concept**

- Demo giving users warnings when they scan an item containing ingredients they wish to avoid
- Allowed for selection of ingredients to warn about as well as confidence levels and reporting of bad data

Jan 2020: **Google Cloud Sainsburys Hackathon - Reviews Sentiment Analysis**

- Organised a team to help build a working demo of an idea inspired by work on the Argos reviews section

Oct 2017 - Jun 2018: **Final Year Individual Project – Virtual Reality Graph Visualisation**

- Explored using an Oculus Rift to visualise and interact with graphs comprised of vertices and edges

Apr 2017 - Jun 2017: **Third Year University Group Project – Climate Edge Application and Sensor**

- Developed an Android application to log and plot graphically data from a microprocessor sent via Bluetooth
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SKILLS AND ACHIEVEMENTS

Programming Skills:

Experienced in JavaScript, TypeScript, React, Golang, Java, Spring Boot
Adequate experience in Android development (Kotlin), iOS development (Swift), SQL
Some experience in C#, Python, MATLAB, C++

Software: Jenkins, Docker, Firebase, Kafka, GraphQL, Cypress, Unity3D

Languages: English (fluent), Welsh (basic proficiency).

Achievements: IET Diamond Jubilee Scholarship 2013, Airbus UK Award 2013, LAMDA grade 7 public speaking.

Activities: Hiking, backpacking, hobbyist electronic and programming projects.
