

KEYAN SADEGHI NAMAGHI

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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.
 - Carried out required production database migration as part of the identity migration so that the minimum amount of data was being stored within Smartshop's databases.
 - Contributed to mobbing sessions on obstacles that arose from edge cases in switching identities.
 - Used my personal development time to build a user service using Redis to manage sessions that allowed a basic iOS app to sign up and log into an account.
 - Volunteered as a mentor to the next generation of graduates on their Betaworks project where I offer support and try to unblock them whenever possible to maximise their development from the scheme.
- May 2020 – Dec 2020: **Payments**
 - Backend development using Java Spring Boot with most of my time focused on the Argos side but also spent time alongside the Sainsburys team.
 - Supported the completion of a payments orchestrator which all services would work through.
 - Worked on designing, improving and implementing CI/CD using Jenkins and Docker.
 - Took charge in the colleague discount UI project as it had effectively been abandoned for over two years and brought it up to scratch as it previously had incorrect documentation and no testing.
 - Worked on improving the developer experience for the team with work on introducing dependabot to help manage dependencies as well as reducing the daily false positives in the alerting service.
- Sep 2019 – May 2020: **Argos Product Display Page**
 - Worked on the React project and implemented a range of new features as well as improved performance and accessibility
 - Contributed to the Argos shared component library with a brand new progress bar component so it could be used across multiple teams as well as work on improving existing components.
 - Implemented a completely new reviews section which was not only cosmetic as it included substantial work on the internal logic of the application.
 - Pioneered the introduction of Cypress to allow for effective e2e testing written by the developers.
 - Helped the migration to using styled components from traditional CSS.

Jun 2018 – Sep 2019: **Assistant Manager, Pizza House, Bangor**

- Managed a small pizza takeaway during the week with responsibilities including recruiting and training new staff, managing shifts and taking responsibility for stock deliveries.

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

- Was asked to continue my university project over the summer to build a prototype that could be tested.
- Worked closely with the start-up, planning implementation for the project on the next prototype.

Oct 2016 – Mar 2017: **Programming Tutor, Code Club, Brompton Library**

- Volunteered to teach children up to 11 years old programming using Scratch and Python

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.
- Was granted every other Thursday to work in a team of 3 to produce and pitch a proof of concept proposition where I developed my idea for a locker collection solution for Argos similar to Amazon’s collection lockers.
- Used an overly elaborate tech stack and microservice architecture to maximise educational benefits.
- Set up CI/CD, multiple environments and dockised build processes so that each microservice could be easily deployed and rolled back with ease.
- Delivered and presented a working prototype that offered a full user journey with real world production data as well as admin dashboards and both a virtual and physical emulation of an actual locker.

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

- Produced a demo of the Smartshop Android app giving users warnings when they scanned items containing ingredients they had specified they wanted 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 and led a team of colleagues who were also on the same graduate scheme as myself to help build a working demo of an idea inspired by my work on the Argos reviews section.
- Using Google Cloud sentiment analysis pulled out key terms from real reviews and provided a metric on how positively customers had felt regarding those terms.

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

- Explored using an Oculus Rift to visualise and interact with graphs composed of vertices and edges.
- Built a working application in Unity (C#) that was able to demonstrate the concept by utilising a modern efficient force directed layout algorithm.

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.
- Designed and manufactured a new rain sensor and began training a model via matlab to calculate rainfall

SKILLS AND ACHIEVEMENTS

Programming Skills:

Experienced:

- Frontend: React in both JavaScript and TypeScript
- Backend: Golang, Java (Springboot), JavaScript, SQL

Adequate experience:

- Apps: Android development (Kotlin) as well as iOS development (Swift)
- General experience in C#, Python, MATLAB, C++

Software / Technologies: 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 and Societies: Hiking, backpacking, hobbyist electronic and programming projects including:

- Wireless weather station measuring temperature, humidity and air pollution.
- Website to debunk the idea that the welsh language has no vowels.
- Tinder clone but it’s only random dog pictures and you can only swipe right.