

## Experience

### Monzo Bank

**Technical Lead, Senior Backend Engineer** • Sep 2019 - Present

Technical lead for the in-app help squad, leading 30+ projects totalling an £8M reduction in yearly customer support costs

- ❖ Building an in-house customer support platform, which has scaled from 2 million, to 6 million+ customers.
- ❖ Designed and lead build on disputes decisioning system that handles £10M+ in reports per year
- ❖ Averaged delivering a new cost-saving experiment every fortnight for over a year
- ❖ Responsible for owning and maintaining 100+ microservices, using Golang, Kafka, NSQ, Cassandra, Prometheus, Grafana, Kibana
- ❖ Architecture reviewer for wider engineering projects, spanning multiple teams
- ❖ Onboarding and mentoring new engineers to write quality code, documentation, and lead projects
- ❖ Solved major severity incidents as an operations on-call engineer
- ❖ Interviewed 50+ backend and fullstack engineer candidates

### Goldman Sachs

**Backend Engineer** • Jul 2018 - Aug 2019

Building an investment banking equities platform that facilitates multi billion dollar IPOs, including Uber and Slack.

- ❖ Migrated deal syndication platform to Java Spring microservices
- ❖ Wrote performant SQL queries to search through large datasets
- ❖ Solved incidents as an on-call engineer for various IPO deals

### GCHQ

**Blockchain Researcher** • Jul 2017 - Sep 2017

- ❖ Completed funded research project, building an academic credential verification system on the Hyperledger blockchain. Built using Golang, Node, Python and Javascript.
- ❖ Presented at the National Cyber Security Centre headquarters

### Inventive Cogs

**Software Engineer** • Sep 2016 - Jul 2018

- ❖ Completed funded research project titled "Road Network Load Balancing for Multi-Agent Informal Fleets", presented to the UK government department for transport to help gain seed funding
- ❖ Supported the development of multiple route planning patents

## Education

### University of Birmingham

**Computer Science BSc (Hons)**

First class – 81% average

Dissertation "Road Network Load Balancing for Multi-Agent Informal Fleets" – 82%

## Awards & Projects

### Pedalo

*HackTheNorth, Canada*

Ethereum blockchain based credential verification system, awarded the "best use of blockchain" at the largest hackathon in Canada, received a pre-seed grant from 1517fund.

### BusOff

*HackJunction, Finland*

Awarded the Deezer prize for developing a virality focused interactive game. Built the gesture detection system using Python, SocketIO, OpenCV.

### Notifi.Click

*HackUPC, Spain*

Awarded the best use of Amazon web services for developing a zero-cost paging system built using a serverless architecture with Lambda, DynamoDB and Amazon dash buttons.

### The Gadget Show

Developed a speed dating chatbot that featured on the UK TV series. Built the data entry stack using Node and Express. Designed the architecture for the project.

### Spot - Easy payments

Best use of serverless technology, and 3rd place for building a system which helps businesses to accept card payments through Apple and Google Pay, in under 5 minutes.