

PROFILE

I am an experienced software engineer with a passion for nurturing and developing engineering talent through teaching and mentoring.

I have a track record of driving technical excellence, ownership, and self-organisation at both team and divisional levels. I am looking for a role in which I work with inspiring people to develop inspiring products.

SKILLS

As an '**agile first**' creative problem solver, I work efficiently and can easily learn new skills, languages and frameworks.

Through numerous teaching and outreach roles, I have developed **excellent communication skills** and can convey complex concepts to a non-technical audience.

Software/tools

- Node.js, React
- GraphQL, Apollo
- Ruby & Rails
- HTML, CSS
- JavaScript & React
- Git / Github / Github Actions
- Data visualisation & D3
- Postgres & SQL
- Python
- Docker
- Go
- Jira & Confluence
- Figma
- Heroku & AWS

WORK EXPERIENCE

Full Stack Software Engineer – Laka Ltd.

May 2022 – Present

Node.js, Javascript, Go, React, Redux, Postgres, GraphQL

As a **full stack engineer** and **qualified Agile PM Practitioner** at Laka, I have demonstrated **expertise in software engineering, project delivery, and leadership**. Within a team, I have helped build business-critical projects including the new 'Laka Core' insurance product that required a new customer journey, built with React and Redux Forms, as well as a new internal Apollo GraphQL API. I also developed a new end to end testing framework with Cypress to give the team significantly more confidence as we work towards continuous deployments.

PhD and Postdoctorate – UCL

Sept 2018 – March 2022

Ruby, Rails, React, Python, PyTorch, Pandas, D3

I founded the [Monument Monitor project](#), a pioneering citizen science project that built a data aggregation platform using citizen collected data to identify issues at heritage sites, using Rails and React for the main framework, as well as several machine learning models built with PyTorch, hosted with Heroku and AWS. This platform has since been adopted across numerous UK heritage and world heritage sites.

Alongside engineering skills the project required excellent **project and people management** capabilities, managing the needs of 20+ stakeholders, varying business needs and academic requirements. I succeeded within the project by following **flexible agile practices**, prioritising iterative improvements through **stakeholder review sessions and retrospectives sessions**, **culminating in the creation of a three year product roadmap**. Alongside this I also co-created a Citizen Data module for a Data Science MSC and supervised several masters students, who each successfully published their research.

Technical Lead – Coram

March 2020 – Sept 2022

Python, Ruby, Colab, Panoptes

I worked as a technical lead on a part time basis to build data pipelines for the 'Voices through Time' digitisation project for Coram. This utilised a crowdsourcing platform to digitise over 200+ handwritten documents. I oversaw the process and technical practicalities for uploading, exporting and analysing both the scanned and transcribed data; ready for a new digital archive for the organisation.

Technical Facilitator – Freelance

April 2014 – Sept 2018

Facilitation and mentoring

Throughout my tech career I have freelanced as a teacher and facilitator for technical education companies such as [Code First: Girls](#), [Decoded](#) and [SuperHi](#) as well as lecturing at [UCL](#). This has involved delivering one-off technical workshops on web development, running evening courses as well as providing one-on-one mentoring for peers, friends and colleagues.

AWARDS

EPSRC Development Funding

Award of £29,000 EPSRC 'discovery-to-use' funding to roll out Monument Monitor project nationally across Scotland.

EPRSC Training Bursary

Award of £250 to enrol in 'Data Visualisation' course specialising in D3 and web technologies

REKREI Scholarship

Award of £1,000 to attend international conference in Japan to present MRes research

Professor Sir Malcom Grant Scholarship

Scholarship of £25,000 to pursue MRes in Heritage Science, awarded in recognition of outstanding leadership skills

OUTREACH

Heritage Science Hackathon

Co-founded event to unite unfunded heritage organisations and technologists. The successful event led to £10,000 of follow on funding for project development.

Researc/Hers

Designed and led 'Introduction to Git and Github' course for London based researchers identifying as female.

Société Générale

Created a software development crash course for leading investment bank to demystify web technology and improve access for women in finance.

Full Stack Software Engineer – Soho House

Sept 2017 – August 2018

Ruby, Rails, Docker, Postgres, Kubernetes, AWS

At Soho House I worked as a backend engineer, using primarily Ruby and Ruby on Rails to build a new in-house API to for the company's new digital product hosted on AWS and distributed with Docker and Kubernetes.

Lead Facilitator – Aotearoa Dev Academy

Feb – Sept 2016

Node.js, React, Redux, Express, Coaching

Aotearoa Developers Academy is a developer bootcamp in Wellington, New Zealand that focuses on teaching the fundamentals of web development using Node in 12 weeks. As a lead facilitator I led cohorts of students through the process and developed the curriculum with equal focus on both engineering and empathetic communication skills. I also managed a team of 7 teaching assistants.

Full Stack Software Engineer – Wool and the Gang

April 2014 – Jan 2016

Ruby, Rails, Postgres, Javascript, HTML & CSS

At Wool and the Gang, I worked as a full stack developer on a Ruby on Rails e-commerce platform. I scoped, planned and developed the work for several projects including the implemented 'Refer a Friend' scheme.

Outside of my technical work, I also mentored interns and delivered workshops to the company to increase in-house understanding of the technical architecture.

Intern – Funding Circle

Feb – March 2014

Ruby, Rails, Javascript, HTML & CSS

An intensive bootcamp within the engineering team at Funding Circle, wherein I first learned the fundamentals of programming.

EDUCATION

AgilePM Agile Practitioner

June 2023

PhD Citizen Science and Heritage Data

Sept 2018 – Sept 2021

University College London

MRes Heritage Science and Engineering

Sept 2016 – Sept 2017

University College London

BA History of Art with Material Studies

Sept 2010 – June 2013

University College London

SELECTED WRITING / SPEAKING

Conferences

'Heritage in the age of AI' Association of Critical Heritage Studies, 2020

Expert panel member for 'Diversity in Tech, Homegrown Talent', London Tech Advocates Conference, 2017

Published

'Semantic segmentation and photogrammetry of crowdsourced images to monitor historic facades' (2022) Heritage Science

'Crowdsourcing as an Analytical Method: Metrology of Smartphone measurements in Heritage Science' (2018) Angewandte Chemie