



William Mayor's CV

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Summary

I am a highly motivated and knowledgeable senior software engineer, with 13 years' experience in building high quality, accessible web applications using Python, JS, HTML, and CSS, with a focus on the backend. In addition, I have considerable experience with data protection (EU/UK GDPR), data security, and APIs. I'm also an experienced team and project lead.

Skills

- Accessibility (WCAG) • Agile • AWS • bash • Celery • CI/CD • CSS
- Cyber Essentials • Data protection (GDPR) • Data security
- Designing and architecting • DevOps • DigitalOcean • Django • Docker • Docker
- Emails • FastAPI • Flask • HTML • Internationalisation • JS • Linux • MacOS
- Online payments and tax • Postgres • Project lead • Pytest • Python • Redis
- RESTful APIs • rq • SASS • sh • SQL • SQLite3 • Svelte(Kit) • Tailwind CSS
- Team lead • Wagtail • Working in teams • zsh

Education

University College London - **MRes Security Science** - 2011-2012 - Merit

University College London - **BSc Computer Science** - 2009-2011 - 1st

Experience

When I graduated from UCL, I started my own freelance/consultancy company. I've worked with many clients on many varied projects, here are some highlights.

[Asahi Super Dry](#) - Lead backend developer on this global marketing platform since 2018, built with Python and Wagtail. Developed custom age verification system ensuring regulatory compliance across 8+ international markets, advanced competition mechanics processing tens of thousands of entries. Created flexible i18n system enabling localised content whilst maintaining brand consistency.

[Inside the Edit](#) - I built their Django-based subscription website that takes payments and tax (using Stripe) from customers around the world. I also scaled their video on demand and streaming services whilst reducing the risk of piracy.

[RFGraph](#) - I built the entire system behind this RF hardware simulator, using FastAPI and Svelte. It has to very accurately execute thousands of mathematical formulae, in parallel, with sub-100ms latency.

[PickTeamz](#) - I built the website and the native iOS and Android that runs this fantasy football game. Using Django, and Flutter, it supports pushing time-sensitive live goal notifications to thousands of users, as well as providing fast access to league tables with non-trivial scoring mechanics.

[UDISAS](#) - A Flask-based tool to provide digital needs assessments, replacing human-led face-to-face sessions. It uses a custom DSL (pyparsing) to handle complex decision trees with hundreds of branching questions and answers.

[Diversity and Ability](#) - From the early days of this social enterprise, I set up and ran the engineering team. For many years I was the only SWE. I built and now run the software team, the data protection team, and our website accessibility audit team.

[pistachio](#) - A Flask-based bespoke CRM system I built to handle the complex paperwork and admin requirements of public sector funding. Over the years it expanded to support automated invoicing, calendar scheduling, customer dashboards, and more. It has been used to support more than 40,000 customers and 350,000 hours of one-to-one support.

[AXS Passport](#) - As the founding software engineer, I built and scaled a comprehensive digital identity platform from MVP to production, leading an 8-person engineering team and architecting secure, scalable systems handling complex organisational hierarchies.