

# Cameron Mackenzie

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| <b>Current role</b> | Senior Software Engineer at Urban Jungle   |
| <b>Experience</b>   | Fintech, Insurance   |
| <b>Technologies</b> | AWS, Kubernetes, Python, Postgres, Angular 8+, TypeScript, C#, Jenkins, Azure, .NET Core |

## Work experience

### Senior Software Engineer, Urban Jungle 🌿

Jun 2024 – Present (2m)

Making insurance fair for everyone  
Fintech · Insurance

AWS Kubernetes Python Postgres Angular 8+

- Mentored new team members as a technical guide, providing code review and guidance on coding practices and conducted interviews for junior developer roles, collaborating with the team to hire top talent
- Oversaw and worked on feature implementation with other engineers, communicating with stakeholders about intricate business logic and data decisions, and timeline trade-offs of different solutions
- Pivoted to solve third-party data blocker during project, scoping and delivering solution to ensure data integrity using existing functionality

### Software Engineer, Urban Jungle 🌿

Nov 2023 – Jun 2024 (7m)

AWS Kubernetes Python Postgres Angular 8+

- Collaborated cross-functionally to ship Urban Jungle's first white label product: Coop Renters Insurance, leading on delivery of a key user journey in short timeline, proposing and implementing end to end testing and uptime monitoring to allow confidence in continued functionality
- Scoped, planned and delivered key change to flagship product, refactoring multiple microservices to handle new requirement in a timely manner
- Enhanced developer experience and testing by proposing new patterns, including development of internal CLI tooling with buy-in from the team

### Graduate Full-stack Engineer, Aviva 🏢

Sep 2022 – Nov 2023 (1y 2m)

AWS TypeScript C# Postgres Jenkins Azure .NET Core Angular 8+

- Collaborated with a small, agile team to develop critical internal applications in C# (Blazor and ASP.NET Core 6) and TypeScript (Angular) for over 1000 users
- Utilized AWS CLI and SDK with state machines to manage cloud resources such as EC2, SQS, Lambda, and CloudWatch
- Proposed and implemented Playwright end-to-end testing, integrated into CI/CD pipeline, reducing manual testing errors and deployment times
- Enhanced type-safety in Angular codebase for new features, moving towards full strict mode incrementally for a more robust codebase

- Prototyped and presented a React Native mobile app integrating a 3rd party API in a sustainability competition

## Computational Chemist Placement Student, Infineum

Jan 2021 – Jun 2021 (5m)

Python

- Utilised computational modelling to drive research and development of innovative chemicals inspired by human physiology
- Collaborated effectively with a global team to design and test a new product concept
- Demonstrated strong problem-solving skills through refinement of computational model systems and unit testing

## Education

### University of York

Jan 2017 – Jan 2021 (4y)

Undergraduate (2.1) Master of Chemistry, Chemistry

- Four-year integrated Master's programme, completing an industrial placement in computational chemistry in the final year for the Master's project.

## Snippets

### Student Loan Tracker [student-loan-tracker.vercel.app](#)

Technologies: React, Next.js, tRPC, TailwindCSS, Github Actions

I have built a web app to demystify student loans. From 2023, new students are making payments for 40 years, a change that needs attention. The loans are now a more consequential financial decision, and it is increasingly difficult to assess the value of a student loan. The app projects loan balance, with interactive editable rows and graphs showing nominal vs real data, for visualisation of future payments. I took a mobile-first approach when designing the layout using TailwindCSS's responsive design paradigms to ensure accessibility.

### Take home pay calculator [github.com](#)

Technologies: Python, FastAPI, AWS, Docker, Github Actions

A RestAPI for calculating take-home pay after tax and national insurance using FastAPI, dockerised in AWS. Currency handling uses a pip package to ensure accurate rounding. I learnt Object-oriented design and unit tested of all individual calculations.

### Food Blog [coeliacducky.com](#)

Designed and implemented blog site for food reviews, with self-hosted CMS and admin dashboard to manage content on the site. Static site generation is used in Next.js to ensure smooth navigation for content that doesn't change very frequently

## More about me

### Interests

Ask me about where I've been walking, or if you have a while then what I've been cooking!