

Emma Oatley

Software Engineer

Location: Munich

Email: emma@oatley.ie

Nationality: British

Right to work: D-visa

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GitHub: github.com/eoatley

Professional Profile

Software Engineer with 3 years of experience specialised in [Scala](#) and [TypeScript](#). Created a culture of self-development by organising weekly goal setting and review meetings. Diligently ensured the smooth running of microservices by putting appropriate alerting in place. Explored interests in cloud by undertaking an [AWS cloud challenge](#).

Since moving to Munich, I am focused on improving my functional programming and German language skills. I am currently completing an intensive B1.1 German course at DeutschAkademie.

Primary stack: Scala, TypeScript, JavaScript, Node.js, React, PostgreSQL, Kubernetes

Work History

02/2023 – 02/2025

Engineer

Sainsbury's - sainsburys.co.uk | London, UK (Hybrid)

Supermarket and Retailer

Tech stack: Scala, Akka, Shell, Airflow, PostgreSQL, GitHub Actions

- As a backend engineer, I maintained 20+ microservices that made up the retail price and promotion engines.
- Migrated microservices from legacy Mesos infrastructure onto a modern platform which harnesses Amazon Elastic Kubernetes Service. For this, I designed our GitHub branching and deployment strategy and reconfigured our services to use Kubernetes API instead of Consul for service discovery.
- I drove improvements in stability via regular updates to error handling, implementation, alerts and documentation. As a result, eligible customers received correct loyalty points.
- Mentored a group of graduates in their technical and soft skills development.
- Completed a 3-day course on 'Running Containers on Amazon Elastic Kubernetes Service'

- 04/2022 – 02/2023 **Associate Engineer**
Sainsbury's - sainsburys.co.uk | London, UK (Hybrid)
Supermarket and Retailer
Tech stack: TypeScript, Node.js, React.js, MongoDB, Kafka
- As a full stack engineer, I worked towards mastering retail promotion data.
 - Implemented a feature to unlock a new type of loyalty promotion.
 - Worked with a Data Engineer to develop a data model for complex promotions and implemented the model in Mongoose for MongoDB.
 - Actively took part in and led agile ceremonies
- 08/2019 – 08/2021 **Maths Teacher**
Westminster Academy - westminsteracademy.org.uk | London, UK
State Secondary School for students aged 11 – 18
Taught: KS3, GCSE Maths, IB Maths Applications and Interpretations
- Supervised projects on Data and Statistical Analysis
 - Innovated by designing mail-merges to routinely communicate with parents on students' engagement and progress

Education

- 10/2021 – 02/2022 **FULL STACK CODING BOOTCAMP (PERN stack)**
Academy – academy.tech
London, UK (Hybrid)
- 09/2018 – 06/2019 **PGCE IN MATHEMATICS WITH QTS (Teaching qualification)**
Canterbury Christ Church University with Imperial College London
London, UK
Distinction
- 10/2014 – 06/2018 **MSci Mathematics**
Imperial College London
London, UK
2.1

Additional Skills & Interests

Languages

- English (native speaker), German (Working on B1), French (B1)

Interests

- Climbing and hiking