

# Emma Oatley

Software Engineer

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## Professional Profile

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Software Engineer with 3 years of experience specialising in Scala and TypeScript, with a background in full-stack development, microservices, and cloud technologies. Improved system reliability by implementing robust alerting mechanisms. Expanded cloud expertise through an [AWS cloud challenge](#), gaining hands-on experience with scalable infrastructure.

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

## Work History

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02/2025 – Present

### Career Break

- Relocated to Germany and enrolled in an intensive B1.2 German course at DeutschAkademie.
- Practicing functional programming in Scala through personal projects.

02/2023 – 02/2025

### Engineer

**Sainsbury's** - [sainsburys.co.uk](https://sainsburys.co.uk) | London, UK (Hybrid)

Supermarket and Retailer

**Tech stack:** Scala, Akka, Shell, Airflow, PostgreSQL, GitHub Actions, Grafana, New Relic, Kafka

- Maintained 20+ microservices powering the retail pricing and promotion engines.
- Led the migration of microservices from legacy Mesos infrastructure to Amazon EKS, improving scalability and maintainability. Designed the GitHub branching and deployment strategy and reconfigured services to use Kubernetes API for service discovery instead of Consul.
- Enhanced system stability by refining error handling, alerts, and documentation, ensuring eligible customers received correct loyalty points.
- Mentored a group of graduates, supporting their growth in both technical and soft skills.
- Completed a 3-day AWS course on *Running Containers on Amazon Elastic Kubernetes Service*, strengthening expertise in cloud-native deployments.

- 04/2022 – 02/2023    **Associate Engineer**  
**Sainsbury's** - [sainsburys.co.uk](https://sainsburys.co.uk) | London, UK (Hybrid)  
Supermarket and Retailer  
**Tech stack:** TypeScript, Node.js, React, MongoDB, Kafka
- Worked in a full-stack team responsible for being the source of truth for retail promotion data.
  - Implemented a feature to unlock a new type of loyalty promotion.
  - Collaborated with a Data Engineer to design a complex promotion data model and implemented it in Mongoose for MongoDB.
  - Actively participated in and led agile ceremonies.
- 08/2019 – 08/2021    **Maths Teacher**  
**Westminster Academy** - [westminsteracademy.org.uk](https://westminsteracademy.org.uk) | London, UK  
State Secondary School for students aged 11 – 18  
**Taught:** KS3, GCSE Maths, IB Maths Applications and Interpretations
- Supervised student projects on Data and Statistical Analysis.
  - Designed automated mail-merges to routinely communicate with parents about student engagement and progress.

## Education

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- 10/2021 – 02/2022    **FULL STACK CODING BOOTCAMP (PERN stack)**  
Academy – [academy.tech](https://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  
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