Emma Oatley

Software Engineer

Location: Munich
Email: emma@oatley.ie
Nationality: British
Right to work: D-visa

Website: emma.oatley.ie
LinkedIn: linkedin.com/in/eoatley
GitHub: github.com/eoatley

Professional Profile

Software Engineer with 3 years of experience specializing in Scala and TypeScript. Enhanced engineering culture by initiating weekly goal setting and review sessions. Strengthened system reliability by implementing robust alerting mechanisms for microservices. Expanded cloud expertise through an AWS cloud challenge, deepening knowledge of scalable infrastructure.

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

Work History

02/2025 – Present   **Career Break**

- Moved to Germany.
- Completing an intensive B1.1 German course at DeutschAkademie.
- Practicing Functional Programming in Scala.

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

- 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	London, UK (Hybrid)
	Supermarket and Retailer
	Tech stack: TypeScript, Node.js, React.js, 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 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 IB projects on Data and Statistical Analysis
- Designed automated mail-merges to routinely communicate with parents about student 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