

# Emma Oatley

Software Engineer

**Location:** Munich

**Email:** [emma@oatley.ie](mailto:emma@oatley.ie)

**Nationality:** British

**Right to work:** D-visa

**Website:** [emma.oatley.ie](http://emma.oatley.ie)

**LinkedIn:** [linkedin.com/in/eoatley](https://linkedin.com/in/eoatley)

**GitHub:** [github.com/eoatley](https://github.com/eoatley)

## Professional Profile

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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

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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

- 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](https://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](https://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

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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  
2.1

## Additional Skills & Interests

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### Languages

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

### Interests

- Climbing and hiking