Emma Oatley

Software Engineer

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Summary

Software engineer with a holistic mathematical and software background, prepared to relocate. Coding bootcamp graduate, experienced in building full stack projects and maintaining backend microservices. Interested in backend engineer roles.

Experience

SAINSBURY'S TECH | Engineer
Feb 2023 – Present | London

- As a backend engineer, I maintain 20+ microservices that make up the retail price and promotion engines using Scala, Akka, PostgreSQL, Kafka and Apache Airflow.
- We are migrating our microservices from legacy cloud infrastructure onto a modern platform. For this, I designed our new GitHub branching and deployment strategy, and reconfigured our services to use Kubernetes API instead of Consul for service discovery.
- I drive improvements in stability via regular updates to error handling, implementation, alerts and documentation. For example, I have acted upon alerts to ensure all eligible customers receive loyalty points.
- For my ongoing development I am participating in a cloud challenge, for which my code can be found on GitHub. I am completing Martin Odersky's course on functional programming in Scala, and have enjoyed various workshops with AWS, including a course on their Elastic Kubernetes Service.

SAINSBURY'S TECH | Associate Engineer
April 2022 – Feb 2023 | London

- As a full stack engineer, I worked towards mastering retail promotion data with Node.js, React, MongoDB, Kafka, Kafka Connect, TypeScript, and Cypress.
- Implemented a feature to allow a new type of Nectar at Argos promotion.
- Worked with our 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 such as retro, refinement, stand-up, and sprint review.

ACADEMY | Full Stack Coding Bootcamp Scholar
Oct 2021 – Feb 2022 | London

- Learned techniques in JavaScript such as closures and recursion to solve coding katas.
- Created full-stack apps using React and TypeScript on the front-end, and Node.js, Express and PostgreSQL on the back-end, independently and in groups.
- Implemented automated unit and E2E tests.
- Developed emotional intelligence in leadership skills sessions.

WESTMINSTER ACADEMY | Maths Teacher
Aug 2019 – Aug 2021 | London

- Taught engaging lessons which allowed all students to progress.
- Innovated by designing mail-merges to routinely provide all parents with quantitative and personalised feedback.

Skills

PROGRAMMING

Proficient:
TypeScript • JavaScript

Experienced:
Scala

Familiar:
Shell

LIBRARIES/FRAMEWORKS

React • Node.js • Akka

TOOLS/PLATFORMS

MongoDB • PostgreSQL
Kafka • Git • Docker
Kubernetes • AWS
GitHub Actions • DataDog
New Relic • Airflow

Education

IMPERIAL COLLEGE
MSci Mathematics
Oct 2014 - Jun 2018 | London
Specialised in Algebra and Geometry
Grade: 2.1

UNIVERSITY OF CANTERBURY WITH IMPERIAL COLLEGE
PGCE in Mathematics with QTS
Sep 2018 - Jun 2019
Maths Teacher Qualification
Grade: Distinction

Other interests

HOBBIES
Climbing • hiking • food

LANGUAGES
Working towards A2 German
B1 French mostly forgotten