Devon Brazier
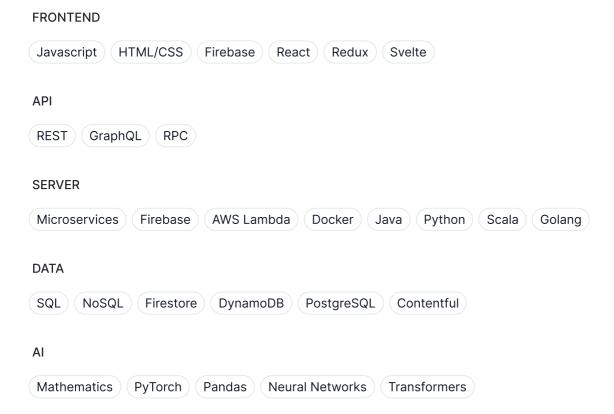
Full-stack Software Engineer

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About me

I am a dedicated software engineer with 3 years of experience, committed to producing high-quality systems and user experiences. My expertise in various programming languages and dev tools helps me continuously improve my work and exceed expectations. I am also a strong communicator and problem-solver, which enables me to function effectively in a team environment.

Skills

FRONTEND

Javascript   HTML/CSS   Firebase   React   Redux   Svelte

API

REST   GraphQL   RPC

SERVER

Microservices   Firebase   AWS Lambda   Docker   Java   Python   Scala   Golang

DATA

SQL   NoSQL   Firestore   DynamoDB   PostgreSQL   Contentful

AI

Mathematics   PyTorch   Pandas   Neural Networks   Transformers

Experience

Software Engineer @ Ocado Technology

Sept 2020 - present

ECOMMERCE • *SEPT 2021 - PRESENT*

As part of a cross-functional team, I built features for an ecommerce offering on mobile, web, and backend platforms. This involved deploying changes to 9 major clients across 9 different

countries, and handling both in-office and out-of-office support responsibilities. My role as a full-stack engineer included using JavaScript, React, and Redux for the frontend, and Java Spring microservices, AWS Lambdas, and DynamoDB for the backend.

Specific works includes:

- I designed and built a full-stack system for recipe management on an ecommerce platform, utilizing the Contentful third-party service as a CMS. This enabled clients to create recipes for their online stores and customers to easily shop for meal-centric grocery needs.

- I incorporated SEO fields into the recipe feature, enhancing clients' searchability on search engines. The fields were supported in all offered languages, including Japanese with non-roman characters.

- I designed a platform-wide sitemap system using AWS Lambda, S3, and CloudFront. The system included all products and recipes in all available languages, while minimizing cost and maximizing autonomy and code ownership for teams.

- I refactored AWS Lambdas that processed product images, reducing bundle sizes and resulting in savings in runtime cloud costs and lower cold start times.

PERCEPTION ROBOTICS • *MARCH 2021 - SEPT 2021*

Built a suite of applications to simulate warehouse operations, enabling robotic teams to test software changes against physics engines before using live pick-stations. The suite was developed using Python (FastAPI, gRPC), Docker, ROS (Robot Operating System), and Unity physics engine. The simulation suite significantly improved the efficiency of the testing process and enabled faster feedback loops, allowing teams to catch and fix issues earlier in the SDLC.

TEST ENGINEERING • *SEPT 2020 - MARCH 2021*

I developed an integration testing framework for warehouse applications, utilizing Scala, Docker, and Kubernetes to automatically deploy test deployments. The framework allowed other development teams to write tests and assert boundaries across warehouse applications.

Education

University of Birmingham
2019-2020
Computer Science MSc: Class II Division I - Average 86%

University of Birmingham
2015-2018
Physics BSc: Class II Division I

Contact

[Website](#)

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