Ben Barber

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Skills

I am a cloud engineer focused on creating performant web applications, building distributed systems, and deploying cloud native infrastructure. I primarily use the MERN stack, but I am also proficient in Python and Rust. For DevOps tasks, I use Docker for containerization, Terraform for IaC, and Docker Compose/ECS/Kubernetes for orchestration. I also implement data science and MLOps tools.

Experience

Feb 2023 - Present

Flamel.ai - Full Stack Engineer

- Built an AI-driven SaaS platform and brought it from concept to product with paying customers in under six months.
- Joined as the second engineer in the company.
- Worked extensively on both the backend and frontend of the platform (MERN).
- Implemented a distributed architecture that scales on multiple layers using Node.js cluster, Docker (with compose), and Amazon ECS.
- Leveraged Redis to manage user sessions and scheduled jobs (with BullMQ).
- Implemented a robust WebSocket system that uses Redis as a Pub/Sub broker.
- Integrated large APIs for data ingestion, including Meta, LinkedIn, and Twitter/X.
- Created a Slack notification bot to allow the team to quickly and efficiently handle user-facing errors.

Aug 2022 - Feb 2023

Notopology - Software Engineer

- Worked on a zero trust network obfuscation proxy in Node.js and Rust.
- Made use of GPG and AES encryption, and ZMQ routing.

Jul 2022 - Sep 2022

LifeJourney - Intern

- Participated in many aspects of a product launch sprint including marketing strategy, communication with partners, and marketing site development in Python Flask / ReactJS.

Certifications

Apr 2022

Full Stack Web Developer - Udacity Nanodegree

Publications

- Real-Time Messaging in a Distributed Architecture with Node.js using WebSockets and Redis | by Ben Barber | Dec, 2023 | Medium