Ben Barber

Website | **Github** | **LinkedIn** | benbarber121@gmail.com | 571-888-6879

SKILLS

- **Core:** Web Development, Distributed Systems, Cloud Engineering, Machine Learning, Reinforcement Learning, Open Source
- **Languages:** Rust, Python, JavaScript, TypeScript
- **Web Frameworks:** React.js, Node.js, Express.js, Flask, Tornado
- **ML Frameworks:** PyTorch, Burn, Pandas, NumPy, Weights and Biases
- **Technologies:** MongoDB, PostgreSQL, Redis, Docker, Docker Compose, WebAssembly, AWS, Terraform, Git, Linux, Bash

EXPERIENCE

Mar 2024 - Present

Open Source - Software Engineer

- Building an open source Rust-native reinforcement learning library (rl)
- Contributing to and working with other libraries in the Rust ML ecosystem

Feb 2023 - Mar 2024

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

- Full Stack Web Developer - Udacity Nanodegree (Apr 2022)

PUBLICATIONS

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