

# Brendan Hoskins

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## EXPERIENCE

### Software Engineer | OSLabs

Jun 2024 – Present

*Typescript, Javascript, OpenTelemetry, Next.js, D3, SQL, Jest*

- Architected and developed an internal tool to visualize Next.js middleware execution and performance, integrating Babel-based AST parsing, OpenTelemetry runtime instrumentation, and D3.js dendrogram visualizations
- Engineered a real-time monitoring system capturing execution timings of middleware functions with minimal performance impact and non-intrusive code injections, enabling developers to debug and optimize middleware behavior across routes/request types 2x as fast
- Implemented Jest unit tests, end-to-end extension tests, and deployed to the Visual Studio Marketplace with open-source documentation with 90% test coverage, enabling consistent adoption and contributions from the community

### Co-Founder, CTO | XProd

Feb 2024 – Feb 2025

*Python, Flask, React, MongoDB, S3, Neo4j, Gunicorn, Playwright, pytest*

- Designed, built, and maintained a Python/React customer insights platform centered around LLM chain of thought algorithms that generate triangulated qualitative insights and relate them to quantitative analytics
- Integrated and optimized MongoDB, Neo4j knowledge graph, and AWS S3 to manage structured and multimodal data (transcribed video/audio (FFmpeg & AssemblyAI), file uploads, and OAuth 2.0 API data) reducing query latency by 60% and improving data retrieval performance across 3M+ records using indexing, relationship tuning, and polymorphic MongoEngine factory patterns
- Built an asynchronous event tracking and task management system leveraging RQ, Mixpanel, and Socket.io to support real-time analytics, background job processing, and live status updates on long-running tasks to enhance user experience and system observability
- Developed and deployed interactive React UI components, implementing Figma designs to exact designer typography, spacing, and color fidelity for a seamless user experience

### Software Engineer | Alki

Jul 2023 – Feb 2024

*Java, Spring Boot, React, MongoDB, JUnit*

- Developed Java/React app centered around the SM2 spaced repetition algorithm to enhance learning retention of users studying for technical interviews
- Implemented modular architecture for 40% of the frontend codebase, improving readability, maintainability, and code consistency, resulting in a 25% reduction in development time for new features
- Automated backend testing with JUnit and incorporated CI/CD pipelines using GitHub Actions, reducing manual deployment times by 80% and ensuring continuous integration reliability

## PROJECTS

### Router | Python, Flask, Javascript, OR-Tools

- Built a Python/vanilla JavaScript app to solve complex VRP constraints (vehicle capacity, distance limits, capacity/weight considerations, pickup/delivery pairing) and display interactive map visualizations using Google OR-Tools, Routes API, and Maps API

### Super | Python, Flask, React, OAuth 2.0

- Developed React/Python web app for full Slack OAuth 2.0 flows allowing users to automatically export specific messages from their workspace using a specific emoji tagged to a specific message by a specific user

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), Python, Typescript, Java, SQL

**Technologies:** HTML, CSS, Node.js, Express, React, Next.js, TailwindCSS, Flask, Redux, AWS (S3, Lambda, EC2, IAM), Docker, Kubernetes, websockets, PostgreSQL, MongoDB, Neo4j, Redis, RQ, Nginx, Gunicorn, Apache, CI/CD (Github Actions), Jest, Cypress, Puppeteer, Playwright, PyTest, Webpack, GraphQL, git

## EDUCATION

### University of Colorado Boulder

*Business Administration, Information management and Analytics | Computer Science*