

# Brendan Hoskins

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## EXPERIENCE

<b>Software Engineer   OS Labs</b> <i>TypeScript, Javascript, OpenTelemetry, Next.js, D3, SQL, Jest</i>	Jun 2024 – Present
<ul style="list-style-type: none"><li>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</li><li>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</li><li>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</li></ul>	
<b>Co-Founder, CTO   XProd</b> <i>Python, Flask, React, MongoDB, S3, Neo4j, Gunicorn, Playwright, pytest</i>	Feb 2024 – Feb 2025

- 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

<b>Software Engineer   Alki</b> <i>Java, Spring Boot, React, MongoDB, JUnit</i>	Jul 2023 – Feb 2024
<ul style="list-style-type: none"><li>Developed Java/React app centered around the SM2 spaced repetition algorithm to enhance learning retention of users studying for technical interviews</li><li>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</li><li>Automated backend testing with JUnit and incorporated CI/CD pipelines using GitHub Actions, reducing manual deployment times by 80% and ensuring continuous integration reliability</li></ul>	

## PROJECTS

<b>Router   Python, Flask, Javascript, OR-Tools</b> <ul style="list-style-type: none"><li>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</li></ul>	
<b>Super   Python, Flask, React, OAuth 2.0</b> <ul style="list-style-type: none"><li>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</li></ul>	

## 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

<b>University of Colorado Boulder</b> <i>Business Administration, Information management and Analytics   Computer Science</i>
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