Adam Hursey

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Senior Software Engineer - Nasdaq Atlanta, GA November 2022 - Present

Omni Team - March 2024 - Present - Vue.js, c#, Postgres

- **Core Platform Modernization:** Led efforts to stabilize and modernize a large-scale management system supporting 12+ microservices and a legacy monolith. Enhanced scalability and overhauled critical systems, enabling seamless data population across 30+ sites and managing billions of rows in 10,000+ SQL tables, used by hundreds of Nasdaq employees daily.
- **Automation Transaction Queue Redesign:** Revamped the core system coordinating Selenium jobs, streamlining execution, improving reliability, and ensuring seamless integration with the broader management platform.

Research Management Team - November 2022 - March 2024 - React, Node.js, MongoDb

- **Feedback Project Creation**: Developed a new product with a rich text editor enabling clients to conduct detailed GitHub-like reviews on research pieces, allowing for constructive feedback and collaboration.
- **Aspose & Templater Expert**: Acted as the subject matter expert on Aspose and Templater, using these tools to standardize data into publishable, shareable research documents for internal and client distribution.
- **Advanced Elasticsearch Integration**: Led advanced search implementation with Elasticsearch, enabling clients to search and filter database information rapidly and effectively, streamlining data accessibility.

Creator - Nova Journal Woodstock, GA November 2024 - Present

- **Cloud-Based Notes Application**: Designed a cloud-first note taking app offering seamless cross-device synchronization, automated backups, and a consistent user experience across platforms.
- **Core Journal Features with AI Integration**: Developed a Markdown editor with live preview, CRUD journal management, tagging system, full-text search, and dark/light theme toggle. Integrated an AI assistant to provide personalized, contextually relevant responses by analyzing journal entries, leveraging Retrieval-Augmented Generation (RAG) for grounded insights using stored content.
- **RAG System**: Implemented a RAG system leveraging OpenAI embeddings, vector storage with PostgreSQL, and similarity search to retrieve relevant journal entries, enhancing the AI's ability to reference specific past entries in responses.
- **Security and Privacy Focus**: Employed JWT-based authentication, bcrypt password hashing, and secure API routes, alongside parameterized queries to protect user data.

Software Engineer - Home Base Appraisal Management Remote Dec 2019 - November 2022

- Implemented Two Factor Authentication on a site used by thousands of users daily using **Vue, PHP(Laravel)**, and **Vonage**
- Led our team in developing a bug tracking system with **Pivotal Tracker** which included creating a web portal for bugs and feature requests to be submitted by end users, and redesigning our agile workflow to allow for more productive sprints
- Integrated our payment flow with **Routable** and **Quickbooks** to automate our payment process
- Reduced our account representatives work 40% by automating the appraisal assign process
- Developed a full stack system for sending custom surveys to end-users that involved building ERDs, developing backend functions to perform CRUD operations, and building an interactive front-end to create custom surveys
- Wrote automated jobs that ran complex **SQL** statements to generate usage reports for multiple companies

B.S. in Computer Science, Taylor University, May 2019