

Sean McHale

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

August 2023 – December 2024

Master of Science in Computer Science | Machine Learning | GPA: 3.90

Vanderbilt University, Nashville, TN

August 2020 – May 2023

Bachelor of Science | Computer Science | Applied Mathematics | GPA: 3.92, *magna cum laude*

WORK EXPERIENCE

C3 AI

January 2025 - Present

Forward Deployed Engineer

May 2026 – Present

Associate Forward Deployed Engineer

January 2025 – May 2026

- Build and deliver enterprise AI applications on the C3 AI Platform by designing solutions, developing features, integrating customer data, managing DEV/PROD deployments, and testing applications for customer delivery.
- Lead engineering delivery for production schedule optimization project for a major North American protein producer representing \$X million of C3 revenue. Integrate 10+ commissioned features, own PR reviews and deployments, improve internal engineering processes, and drive the project from red to green status.
- Create AI workflows pulling from multiple knowledge sources to incorporate base changes into customer applications, saving an estimated 8 full-time engineer weeks during quarterly upgrades.
- Develop end-to-end data ingestion workflows for inventory optimization application, collecting data across 29 plants and contributing to a projected 25% annualized inventory reduction and \$XX million in annualized savings.
- Contribute broadly beyond project work through internal tooling, platform bug tickets, base application improvements, documentation, technical forums, office event planning, and engineering knowledge-sharing sessions.

Tacit Solutions, Founding Engineer and Lead Developer

June 2023 – August 2024

- Led the development of an AI-powered web application that uses LLMs, natural language processing, and vector databases for scalable one-on-one conversations, crowd-sourced knowledge exchange, and insight extraction.
- Engineered a full-stack solution with Django RESTful API, React, and PostgreSQL. Hosted on AWS and Heroku.
- Developed robust test suites using pytest, improving code reliability, update speed, and maintenance.
- Designed SQL database schema to support growth and new features. Built internal dashboards using SQL queries to deliver real-time insights and support data-driven decisions for managers to monitor key user activity metrics.
- Integrated feedback from 5+ pilot customers with fast turnaround time, following CI/CD and Agile practices.

Hashed Health – Freelance Contractor, Full Stack Developer

May 2022 – April 2023

- Developed a full-stack MVP to connect employees with students for micro-internships and contract work, leading to the company's direction toward Venturous, a startup to help early-stage healthcare companies find executive talent.
- Led frontend development using React with Redux, and contributed to the backend with Spring Boot, incorporating Spring Security, and a PostgreSQL database. Tested with SpringBootTest and Postman for seamless integration.

PROJECTS

HuiStack, LLM-Powered Language Learning Application

August 2024 – Present

- Building a full-stack web application for Chinese language learners that ingests Chinese media and converts it into interactive reading, listening, and vocabulary lessons.
- Deployed production application to huistack.com on a Hetzner VPS using Dokploy, with Git-based automatic builds, containerized PostgreSQL with persistent storage and automated backups, and S3-compatible object storage for scalable media delivery.
- Built an AI-assisted development workflow where a Claude Code message creates a Jira ticket and feature branch, agents iterate on implementation, Playwright tests validate functionality, and recorded test videos are uploaded to the ticket and pull request.

Vehicle Routing Problem with Drones Optimization Algorithm

February 2024 – April 2024

- Developed dynamic programming algorithm for the Vehicle Routing Problem with Drones (VRPD), reducing delivery times by 12% over Amazon's last-mile routes, using real-world dataset and geographic data.
- Created interactive 3D visualizations of drone and vehicle routes with routing API and open-source software VeRoViz.

SKILLS & COMPETENCIES

- **Languages:** Python, C++, JavaScript, TypeScript, SQL, Java
- **Technology:** Django, React, PostgreSQL, AWS, Grafana, OpenSearch, pytest, Docker, Redux, NoSQL, Claude Code, OpenAI Codex, Linux, Redis, Pinecone, Pandas, scikit-learn, Beautiful Soup