

# RICHARD HAAR

Full-Stack Engineer

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## Education & Certificates

- East Carolina University - B.S. Economics
- UNC Chapel Hill - Full Stack Coding Bootcamp Certificate

## Work History

**Full-Stack Engineer** | Feb 2022 - Present  
*Springer Studios - Wilmington, NC (Remote)*

- Developed a AI workspace desktop application using Electron, React, TypeScript, JavaScript, HTML, CSS, SQLite, and node-pty, integrated with Claude Code and OpenAI to manage orchestrate agent coding sessions; auto-discover agentic coding projects, browse and resume agent sessions in live CLI terminals, provide multi-agent orchestration, and search session history.
- Built an AI chatbot interface with the Azure OpenAI API, JavaScript, and C#/.NET backend on Azure App Service, generating structured job task analyses and exportable Excel reports to support technical curriculum development for NC Community Colleges.
- Developed an internal multimodal RAG pipeline with Python, TypeScript, React, LangChain/LangGraph, integrating AWS Bedrock embeddings, OpenSearch vector search and S3 storage to retrieve and generate answers over text, image, and documents sources for improving client knowledgebase search and proposal assembly.
- Served as technical lead for client onboarding, implementations and training, gathered technical requirements from stakeholders and translated them to product managers, designers and other engineers.
- Developed a local-first agentic coding analytics platform using Python, FastAPI, SQLite, HTML, CSS, JavaScript, that provided visibility across engineering team, reducing LLM token consumption, improving cost visibility and resources mamangement.

**Web Engineer** | May 2019 - Feb 2022  
*DataGroup Technologies - Greenville, NC*

- Shipped and maintained production code using HTML, CSS, JavaScript, TypeScript, React, PostgreSQL across client web applications, serving as a senior IC other engineers relied on for technical direction.
- Diagnosed and resolved issues across AWS cloud intances and client apps, owned QA and cross-browser/accessibility testing, and improved monitoring processes.
- Collaborated directly with designers and stakeholders to gather requirements and deliver UI updates, feature enhancements, and CMS improvements.
- Drove front-end architecture decisions across performance, accessibility (WCAG 2.1 AA) to meet state ADA compliance requirements for client websites and applications.

## Selected Projects

### **Martin Community College - Headless CMS & College Catalog Application** *(Full-Stack Engineer)*

- Replaced multiple single-purpose third-party tools with one integrated platform managing courses, programs, career pathways, job metrics, registrations, and lead generation, saving the college recurring costs of \$45,000/year.
- Owned implementation end-to-end and worked directly with college stakeholders to translate their operational needs into the updated platform.

### **Mesh** *(Full-Stack Engineer)*

- Built a Mac OS desktop application that gives Claude Code users visibility over their scattered AI coding sessions: auto-discovers every project, provides token consumption and cost analytics, renders session transcripts, resumes agent sessions in live embedded terminals, and generates status update project analyses.

### **JTA AI Tool** *(Full-Stack Engineer)*

- An AI chatbot interface with the Azure OpenAI API, JavaScript, and C#.NET backend on Azure App Service, generating structured job task analyses and exportable Excel reports to support technical curriculum development for NC Community Colleges.

## Technical Skills

**Languages:** JavaScript (ES6+), TypeScript, Python, PHP, HTML5, CSS3, SQL

**Frameworks:** React.js, Django, Next.js, Express.js, GraphQL

**Libraries & UI:** Redux, Zustand, jQuery, Tailwind CSS

**Runtime, Cloud & DevOps:** Node.js, AWS, Docker, CI/CD, Vercel, Netlify, Heroku, Git

**Databases:** PostgreSQL, MySQL, MongoDB, Vector DB (Qdrant)

**AI / Agentic:** Retrieval-Augmented Generation (RAG), Vector Embeddings, Semantic Search, Retrieval Pipelines, LLM API Integration, Model Context Protocol (MCP), Workflow Automation, Context Management, AI-assisted Development & Refactoring, Prompt Engineering, Agent Orchestration

**Certifications:** Google Analytics (GA4);