

ISAIAH ROHRER

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EDUCATION

Florida State University

Aug. 2023 – Dec. 2026

Bachelor of Science in Computer Science

GPA: 3.87/4.00

Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Computer Architecture, Introduction to Artificial Intelligence, Databases, Intro to C++ Programming, Unix Tools, Ethics and Computer Science
Honors: President's List (2x), Dean's List (2x)

TECHNICAL SKILLS

Languages: C++, JavaScript, TypeScript, Python

Technologies/Frameworks: React, Next.js, AWS (Lambda, S3, DynamoDB, API Gateway, CloudWatch), Unix/CLI, SSH, Clerk, RAG (Retrieval-Augmented Generation), ChromaDB, FastAPI, REST APIs

Developer Tools: VS Code, Vercel, GitHub, Git

EXPERIENCE

Software Engineer

June 2025 – Aug. 2025

Freelance

Lancaster, Pennsylvania

- Designed and built a scalable document automation pipeline to process sales orders for a retail client
- Leveraged Azure AI Document Intelligence to extract structured data from scanned PDFs with 95%+ accuracy, utilizing AWS S3 and DynamoDB to store both raw and parsed sales orders in a scalable, distributed architecture
- Automated data integration with NetSuite using its APIs, reducing manual data entry time by up to 80%
- Constructed a customer-facing dashboard using Next.js to enable real-time monitoring and approval of digitized orders

PROJECTS

Studiz.ai | *Next.js, TypeScript, AWS, ChromaDB, Python*

- * Created an AI-powered study web app using Next.js, AWS, and FastAPI to help students effectively study with AI
- * Built a context-aware Retrieval-Augmented Generation (RAG) system integrating file-to-text parsing, chat history, and user queries to generate grounded responses, increasing context utilization by 50% within token window limits
- * Leveraged AWS services (S3, DynamoDB, Lambda, API Gateway) and Vercel Edge Functions to implement scalable serverless functions with efficient data handling and API routing, while integrating Clerk for authentication
- * Monitored application performance with AWS CloudWatch and deployed continuously via Vercel at www.studz.ai

MyRide.show | *React, JavaScript* | 🐙

- * Developed a web app using React for car enthusiasts to display their car's modifications using a link-in-bio like profile
- * Engineered a serverless backend with Cloudflare Workers at the edge to handle dynamic profile fetching and editing, leveraging Cloudflare KV for low-latency and distributed storage, achieving 30% faster page loads
- * Set up CI/CD pipelines using Cloudflare Wrangler CLI to automate deployment, reducing deploy time by 50%

Aggregate Metric ELO Ranking System for League of Legends Esports | *JavaScript* | 🐙

- * Devised a custom ELO ranking algorithm that parsed 2TB+ of JSON match data across 600+ teams, which improved tournament prediction accuracy by 20%

Wilson's Algorithm Visualizer | *C++* | 🐙

- * Composed a C++ terminal application that implements and visualizes Wilson's Algorithm for generating perfect mazes

Storm Mode - NextEra Energy Hackathon 2nd Place Winner

- * Won 2nd place at the NextEra Hackathon by designing a predictive analytics module for Florida Power & Light's app

LEADERSHIP

Association of Computer Machinery

Oct. 2024 – Present

Weekly LeetCode Workshop Coordinator

Tallahassee, Florida

- * Revived and led ACM's weekly LeetCode workshops focused on algorithmic thinking and coding interview preparation
- * Created and delivered weekly presentations on key LeetCode topics, emphasizing brute-force vs. optimized solutions
- * Mentored participants on effective problem-solving strategies, including data structure selection and algorithm design