Zayeem Zaki

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EDUCATION

University of Toledo, Toledo, Ohio **Dec 2025**
Bachelor of Science in Computer Science

SKILLS

Languages *Proficient* Python · Java *Intermediate* JavaScript *Beginner* SQL · Swift
Tools/Platforms React · Next.js · Node.js · Spring Boot · FastAPI · AWS · Docker · Git

EXPERIENCE

Software Engineering Intern **May 2025 - Dec 2025**
CCC Intelligent Solutions *Chicago, IL*
- Built a **Spring Boot** application in an **Agile development** environment that reduces a **2-week manual process to 2 seconds** through **automation** and **scalable backend services**.
- Created a mini **Node.js** service for Puppeteer-based PDF generation and deployed it using **Docker**, **improving form-rendering accuracy by 90%** in a **Spring Boot + Vue.js app**.
- Built and optimized **160+** custom HTML/Vue.js forms, **reducing layout issues by 70%** and improving user experience across devices.
- Refactored a complex **Kafka** consumer to make the logic cleaner and more modular, resulting in **easier debugging**, **faster feature development**, and **improved code maintainability**.

Technical Solutions Architect *(Volunteer)* **Sep 2025 - Present**
Daffodil Studios — Github Link *Vienna, VA*
- Designed and **architected a full-stack donation platform** using Firebase for backend logic and Stripe for payments, wrapping the frontend in **Vue.js** to create a responsive, high-performance user experience.

IT Security Intern **Jan 2024 - Dec 2024**
First Solar *Perrysburg, OH*
- Engineered a Flask**-based automation service using Python** to orchestrate CrowdStrike security workflows, **reducing manual incident response time by 30%.**
- **Architected Python-based security automation** tools integrating Flask and Real-Time Response APIs to streamline workflows and revoke unauthorized privileges, **cutting manual operations by 30%.**

PROJECTS

AI Interviewer — GitHub Link **Nov 2025 - Dec 2025**
- **Engineered a hallucination-resistant AI Interview agent** using Python, FastAPI, and a custom state machine, which rigidly enforced conversation phases and **eliminated generative drift, ensuring 100% of user feedback was grounded in actual transcripts**.
- **Developed a low-latency voice interface** using Next.js, Deepgram, and custom React hooks, implementing robust "click-to-talk" and interruption logic that **reduced audio latency to sub-500ms, creating a natural, "Zoom-like"** conversational experience.

Stock Read — GitHub Link **Oct 2025 - Nov 2025**
- Built a full-stack social trading platform using **Next.js**, **TypeScript**, and **FastAPI**, enabling users to share investment signals and get AI analysis.
- Integrated **Google Gemini AI** to analyze stock signals using **20+ market metrics**, producing sentiment scores and risk assessments.
- Built a market data pipeline using yfinance and **Redis caching**, **reducing API calls by 60%** and improving response times.

AI Memory App — GitHub Link **Oct 2025 - Nov 2025**
- Developed a **GraphRAG engine** that outperforms standard vector search by **mapping entity relationships** in Neo4j.
- Created a **multi-user sandbox** that enforces **strict data isolation on a shared database** using custom session logic.
- Built a **real-time dashboard (React + D3.js)** that visualizes the AI's "brain" updating instantly as users chat.

Food-Sharing App — GitHub Link **Aug 2025 - Nov 2025**
- Engineered a role-based logistics platform using **React Context**, resulting in a centralized donation workflow that **eliminates manual coordination between volunteers and shelters**.

Restaurant Website — GitHub Link **Oct 2023 - Dec 2023**
- **Deployed a full-stack restaurant platform in my junior year using AWS Amplify** and Stripe, **resulting in a 99% uptime** production system that automated payments and **reduced manual order entry by 30%**.

Activities

Certificates Link — Supervised Machine Learning, Spring Boot Masterclass, Python for Data Science, Python Data Science Capstone.
AlgoAcez YouTube — Creating educational content on Data Structures and Algorithms, accumulating 1500+ views and 60+ subscribers.
HeadStarter — Build and deploy full-stack applications in a simulated agile environment during an intensive fellowship.