Zayeem Zaki

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EDUCATION

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

SKILLS

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

EXPERIENCE

Software Engineering Intern *May 2025 - Present*
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

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*
- Hosted the production application on **AWS Amplify**, ensuring reliable deployment and **99% uptime during** the restaurant's active business hours.
- Implemented a **custom payment pipeline using Stripe and Node.js**, resulting in a fully automated checkout flow that **reduced manual order entry by 30%.**

Neuro-Transmitter – GitHub Link *Apr 2023 - Aug 2023*
- **Engineered a secure, gated authentication architecture** using Firebase Auth and Firestore Security Rules, resulting in a zero-trust environment where 100% of new-account access requires explicit administrator verification.
- Developed a **responsive native interface using SwiftUI and Firebase Cloud Messaging**, resulting in a cohesive user experience featuring real-time push alerts and automatic system-wide dark-mode adaptation.

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.