Zayeem Zaki

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SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, HTML, CSS
Tools/Platforms: FastAPI, React, Spring Boot, Next.js, Node.js, AWS, Docker, Git, Neo4j, Redis, Supabase

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EXPERIENCE

Founding AI Software Engineer & Founder
Yeam - AI-powered medical claims agent — Jan '26-Present
- Mapped end-to-end adjudication workflows with 3 partner clinics to identify 3 key denial patterns for the automation engine.
- Architecting a scalable HIPAA-compliant RAG engine to generate appeals in 30 seconds, reducing manual entry by 95%.
- Building specialized AI agents targeting a 15% denial rate to recover an estimated 40% of recurring lost revenue for private clinics.
- Leading 0-to-1 full-stack MVP development (FastAPI / Next.js) to automate 90% of Level 1 appeals for the pilot phase.

Front-end Software Engineer
Daffodil Studios - Production house — Sep '25-Present
- Developed a high-performance production website using Vue/Nuxt, utilizing Server-Side Rendering to reduce load times by 30%.
- Integrated custom Stripe API to enable secure ticketing, successfully processing 1,000+ real-time donations and bookings.
- Connected a headless CMS pipeline to decouple dynamic content from code, reducing developer maintenance requests by 80%.

Full-Stack Software Engineer Intern
CCC - Cloud platform for insurance economy — May-Dec '25
- Engineered a robust Spring Boot application that automated complex manual tasks, reducing a 2-week cycle to mere hours.
- Boosted document rendering accuracy by 90% by deploying a scalable Dockerized Node.js microservice for PDF generation.
- Optimized 160+ dynamic responsive forms using Vue.js to reduce critical cross-device layout regressions by 70%.
- Decoupled legacy Kafka consumer code to reduce backend technical debt by 30% and accelerate feature development by 40%.

Teaching Assistant
University of Toledo - Object-oriented class — Jan-May '25
- Mentored 30+ students using detailed weekly code reviews, resulting in strengthened Object-Oriented Programming concepts.
- Evaluated 100+ complex coding projects, providing actionable feedback on algorithms to improve code quality and efficiency.
- Guided students using intensive hands-on troubleshooting, resulting in significantly higher project success rates for the semester.

Automation Software Engineer Intern
First Solar - Solar manufacturing company — Jan-Dec '24
- Engineered a Flask automation service to orchestrate critical CrowdStrike workflows, reducing incident response time by 30%.
- Integrated remote Real-Time Response APIs to automate privilege revocation, cutting manual security operations by 30%.
- Implemented automated script-based vulnerability scanning that flagged critical compliance gaps 4x faster than manual audits.

PROJECTS

AlgoAcez (YouTube Channel) - 60 Hours — Oct '24-Present
- Produced 40+ technical videos utilizing in-depth visual breakdowns to simplify complex software interview questions.
- Curated a comprehensive DSA pattern library, resulting in 2,000+ organic views and active developer community engagement.
- Delivered detailed step-by-step algorithm tutorials to establish a reliable educational platform for continuous peer learning.

Voice AI Interviewer (AI-powered interview preparation platform) - 50 Hours — Dec '25
- Engineered a hallucination-free agent using Python State Machines to ensure 100% transcript-grounded feedback.
- Developed a real-time voice interface using Deepgram and Next.js, reducing end-to-end audio response latency to sub-500ms.
- Garnered 17k+ impressions and 10k+ interactions on LinkedIn, validating product interest from directors in big tech.

Stock Read (Social Stock platform) - 70 Hours — Nov '25
- Developed a full-stack social trading platform using Next.js and FastAPI, enabling real-time signal sharing and AI analysis.
- Integrated Google Gemini to analyze stock signals against 8 key market metrics, generating instant financial sentiment scores.
- Engineered a market data pipeline using Redis caching, reducing external API calls by 60% and improving data retrieval latency.

AI Memory App (GraphRag AI memory app) - 40 Hours — Oct '25
- Engineered a GraphRAG engine using Neo4j, improving context retrieval accuracy by 40% over standard vector search.
- Architected a multi-user sandbox ensuring 100% data isolation across active concurrent sessions on a shared database.
- Built a real-time interactive dashboard using React/D3.js to visualize 100+ dynamic knowledge nodes updating instantly.

EDUCATION

Bachelor of Science in Computer Science (University of Toledo) — Graduated: Dec '25
Relevant Courses: Gen AI, Machine Learning, Data Structures, Object-Oriented Programming, DBMS, Algorithms, Comp Architecture

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ACTIVITIES

Certificates: Supervised Machine Learning, Spring Boot, Python for Data Science, Python Data Science Capstone.
HeadStarter: Build and deploy full-stack applications in a simulated agile environment during an intensive fellowship.