

Taha Khan

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PROFESSIONAL SUMMARY

Entry-level Full-Stack Developer and Master's in Computer Science student with hands-on experience building cloud-based applications, AI-powered tools, and scalable backend systems. Skilled in Java, Python, React, Spring Boot, and AWS, with a proven ability to learn quickly, adapt to new technologies, and collaborate in Agile teams.

EDUCATION AND CERTIFICATIONS

Master of Computer Science in Software Engineering University of Tennessee	Dec 2026 GPA: 4.0
Bachelor of Science in Computer Science University of Tennessee	May 2023 GPA: 3.2
AWS Certified Solutions Architect – Associate	Expires: Jan 2027

WORK EXPERIENCE

Software Developer (Freelance) Sneaky Squirrel (Retail)	May 2025 – Aug 2025
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- Built and deployed a full-stack timecard application (Flask REST API + React/TypeScript) to digitize paper-based payroll tracking for a retail business.
- Integrated Groq AI to parse scanned handwritten timecards into structured JSON, eliminating manual entry of shift data.
- Automated daily/weekly hour calculations, replacing manual tallying and **improving payroll preparation speed by ~20%**.
- Designed a human-in-the-loop review workflow where staff could edit parsed entries and trigger instant recalculations, handling edge cases such as overnight shifts.

Software Engineer Intern Kindness Matters	June 2025 – Aug 2025
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- Implemented monitoring with CloudWatch alarms and SNS to detect EC2 CPU spikes.
- Built Lambda integration to trigger Slack alerts when thresholds were exceeded.
- Improved system visibility and enabled prompt response to performance incidents.

Software Engineer Intern For Students by Students	Jan 2025 – April 2025
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- Developed and deployed an AI-powered tutoring chatbot using OpenAI's ChatGPT, integrated into an LMS discussion board for instant student support.
- Designed GraphQL APIs with a Spring Boot (Java) backend on AWS to enable seamless communication with a Vue.js frontend.
- Implemented PII detection and a profanity filter to secure chat interactions, while collaborating within a Scrum team and actively contributing to Sprint Planning, Daily Stand-ups, and Sprint Demos as part of an Agile workflow.

PROJECTS

Video Streaming Webapp | *Spring Boot, Auth0, Java, Angular, S3, EC2, Amazon Transcribe*

- Developed a Spring Boot backend following MVC architecture with RESTful APIs to handle video uploads, subscriptions, likes, and viewing details.
- Built a responsive Angular frontend with token-based authentication via Auth0, enabling secure and seamless interaction with backend services.
- Integrated AWS S3 for video and thumbnail storage, used MongoDB for data persistence, and built a chatbot using Llama AI and Amazon Transcribe for transcript-based responses.

GrAPPA Rebuild (Senior Design Project) | *Docker, Python, R*

- Upgraded and rigorously **tested 5 GrAPPA tools**, including Weighted Edge List conversion, Score-based calculations, Hybrid functionality, Boxplot enhancements, and Graph visualization with Graphviz inside a Docker environment.
- Ensured their compatibility with the new environment by updating outdated Python and R scripts.
- Created documentation for the changes made.

TECHNICAL SKILLS

Languages | Java, Python, C++, C, SQL, JavaScript, TypeScript

Tools/Frameworks | Spring Boot, Angular, AWS, Auth0, Graph QL, RESTful APIs, Git, Eclipse, React

Methodologies | Agile Methodologies, OOP