Kareem Alkhaleefa

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EDUCATION

University of St. Thomas — St. Paul, MN
Bachelor of Science in Computer Science, Minor in Mathematics — *Expected May 2027*
GPA: 3.56/4.00 | Dean's List | Excellence Scholar (Full Tuition Award)

EXPERIENCE

Software Engineering Intern — June 2023 – December 2024
Tactile Medical — *Minneapolis, MN*

- Engineered Python automation scripts for FDA-compliant software package management, reducing manual deployment time by 60% and ensuring regulatory compliance for medical device application updates
- Developed production Android UI components in Kotlin for FDA-regulated lymphedema treatment app serving 79,000+ active patients, implementing Material Design patterns and custom views for real-time device telemetry
- Built comprehensive REST API test suite with 100+ Postman collections covering authentication, patient data workflows, and device communication protocols, improving backend reliability by 40% and reducing production bugs
- Collaborated on AWS (EC2, S3, Lambda) and Azure infrastructure deployments for cloud-connected medical devices, implementing CI/CD pipelines that maintained 99.5% system uptime across production environments

Mathematics Tutor & Recitation Leader — February 2022 – Present
University of St. Thomas — *Minneapolis, MN*

- Lead weekly recitation sessions for Calculus I/II and Finite Mathematics courses, supporting 300+ students annually through targeted problem-solving workshops and one-on-one tutoring sessions

PROJECTS

UsernameScout | *Python, FastAPI, React, Next.js, TypeScript, Tailwind CSS, Vercel*

- Built full-stack username availability checker supporting 18 social platforms (Instagram, Twitter, GitHub, TikTok, etc.) with FastAPI backend and Next.js frontend, processing 50+ concurrent API requests via asyncio
- Implemented platform-specific detection logic handling diverse API responses, rate limiting strategies, and error states, achieving 95% accuracy in availability detection across platforms with varying authentication requirements
- Designed responsive UI with real-time search, multi-criteria filtering, and dynamic sorting, deployed on Vercel with automatic CI/CD and environment-based configuration for production and development environments

Contract Radar | *Python, FastAPI, SAM.gov API, PostgreSQL, React, Next.js, TypeScript*

- Developed government contract monitoring platform ingesting federal opportunities from SAM.gov API, implementing automated data pipelines that process 1,000+ daily contract postings with keyword, agency, and NAICS code filtering
- Architected backend services handling API pagination, rate limiting (10 requests/second), and duplicate detection using PostgreSQL, reducing manual contract research time by 75% for small business development teams
- Built automated email notification system with customizable filters and alert scheduling, enabling users to track relevant opportunities across 24 federal agencies without manual daily searches

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Kotlin, SQL, HTML/CSS
Frameworks & Libraries: React.js, Next.js, FastAPI, Node.js, Tailwind CSS, Material Design
Developer Tools: Git, Docker, AWS (EC2, S3, Lambda), Azure, Linux, Postman, VS Code, CI/CD
Databases: PostgreSQL, MySQL, Redis
Certifications: CompTIA A+, CompTIA Security+