

Zain Sheikh

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Professional Summary

Multifaceted Full-Stack Developer, AI Software Engineer, and IT Systems Specialist with a proven record of delivering user-centric software, streamlining IT operations, and leading cross-functional teams through the full product lifecycle. Adept at building scalable, intelligent applications with experience in AI integrations, multilingual programming, and cloud-based automation. Skilled in modern DevOps, database management, and cybersecurity, with a focus on improving performance, reliability, and user experience through innovation and technical excellence.

Technical Skills

React | Next.js | JavaScript | TypeScript | Node.js | Python | PHP | REST APIs | OpenAI API | Vectorization | VS Code | Cursor | AWS Google Cloud | Docker | CI/CD | SQL | Firebase | Databases Management | Migration | Git | Figma | Salesforce | System Admin

Professional Experience

AI Integrations

May 2025 - Present

Remote

Full-Stack AI Engineering Intern

- Designed and deployed AI chatbot infrastructure using OpenAI API, AWS Qdrant, MongoDB, and TypeScript/Next.js, enabling scalable assistant creation and real-time knowledge base management.
- Migrated vector database architecture from OpenAI to Qdrant on AWS, developing a custom API for assistant data orchestration and improving semantic search relevance and retrieval accuracy.
- Led chatbot response optimization through advanced prompt engineering, vector filtering, and diagnostic logging—enhancing conversational quality and increasing contextual accuracy by 30%.
- Built automated onboarding - integrating web scraping, prompt generation, and assistant deployment, reducing manual configuration time by 60% and streamlining end-to-end assistant setup.

Neutec Group Inc

January 2024 - May 2025

Farmingdale, NY

Product Manager

- Designed and deployed a custom inventory management application using JavaScript, PHP, and cloud services, reducing operational errors and processing delays.
- Developed a client-facing service request portal, boosting customer satisfaction ratings and enabling more efficient issue resolution.
- Automated lab equipment reporting using Python, enhancing diagnostics and cutting manual reporting time by over 40%.
- Integrated software systems with diagnostic lab hardware, improving device uptime and reliability for clients.

Cowan Consulting LLC

August 2024 – January 2025

Remote

Software Engineer Intern

- Led the design and implementation of full-stack web apps using React/Node.js, and Firebase, resulting in faster load times and improved scalability.
- Built and deployed CI/CD pipelines using Docker and GitHub Actions, reducing deployment friction and improving release cadence.
- Implemented secure authentication and role-based access controls, strengthening app compliance and user management.
- Integrated third-party APIs including Stripe and Firebase, enhancing product capabilities and boosting customer engagement.

Hunter Business School

September 2022 – July 2024

Levittown, NY

IT Supervisor

- Directed IT infrastructure upgrades across 500+ devices, improving system uptime and reducing reactive support requests.
- Migrated internal systems to AWS and Google Cloud, increasing scalability while cutting operational costs.
- Developed and rolled out internal cybersecurity protocols, reducing endpoint vulnerabilities and improving audit readiness.
- Automated new hire onboarding and provisioning workflows, significantly reducing setup time and improving consistency.

Optimum

February 2021 – August 2022

Remote

Technical Support Engineer

- Resolved network and system-level technical issues, cutting average ticket resolution time and improving user satisfaction.
- Built internal tools for automated knowledge base management, increasing team productivity.
- Assisted with home network optimization and router configurations, leading to more stable connections for customers.
- Provided technical guidance and documentation to improve troubleshooting efficiency and reduce repeat support requests.

Education & Certification

Bachelor of Science in Computer Programming & Information Systems, Farmingdale State College

December 2024

CompTIA+