

Quan Nguyen

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TECHNICAL SKILLS

Languages: Python, C#, Java, SQL, Cypher, HTML, CSS, JavaScript

Technical: OS (MacOS, Linux, Windows), Spring Boot, React.js, PostgreSQL, Cloud Computing (Azure, AWS), Neo4j, Docker, Git

Concepts: Software Development, Data Structures and Algorithms, Scrum (Agile) Methodologies, Full Stack, Database, Frontend, Backend, Machine Learning, Artificial Intelligence

EDUCATION & CERTIFICATION

Arizona State University (ASU) Bachelor of Science in Computer Science

Cumulative GPA: 3.7/4.0

Arizona State University (ASU), Master of Science in Computer Engineering

Expected May 2026

Certificates: AWS Certified Cloud Practitioner (ID: AWS03875902)

EXPERIENCE

Maricopa County Attorney Office

August 2024 – May 2025

Software Engineer Intern

Phoenix, AZ

- Developed and maintained enterprise web applications using React.js, C#, and ASP.NET Core, integrated with a PostgreSQL backend and hosted on Azure App Services, **reducing processing time by 3 hours for every report**.
- Built **20+ RESTful API endpoints** covering multiple services including report data, approval status, and login/signup.
- Provisioned over 60 detective profiles with JWT authentication, integrated security and access using RBAC model.
- Designed CI/CD pipelines with testing, deployment, and production workflows using Docker Images and GitHub Actions.

Crown Castle

June 2024 – August 2024

Software Engineer Intern

Houston, TX

- Streamlined the fiber network search engine with a **custom Java-based microservices**, migrating from relational to NoSQL architecture using Neo4j, improving efficiency for 30+ fiber sales engineers.
- Optimized graph database generation time by batching and indexing datasets, **from 15 minutes to under 2 seconds**.
- Leveraged Docker and GitLab for deployment, and Prometheus, Grafana for monitoring the tool post-release and uptime.

AWS Cloud Innovation Center

August 2023 – May 2025

Teaching Assistant

Tempe, AZ

- Taught AWS infrastructure, including networking, IAM, EC2, S3, and container orchestration with Kubernetes.
- Mentored students in structuring and provisioning cloud services, **improving class average grades by 20%**.

Fulton Undergraduate Research Initiative

March 2023 – July 2023

Undergraduate Research Assistant

Tempe, AZ

- Collaborated on optimizing OpenAI GPT models using **Python and SQL** for diagnosing speech-related symptoms in Alzheimer's and Parkinson's, **achieving 87% precision** through analyzing text responses.

PROJECTS

QuanTrak | C#, ASP.NET Core, React.js, PostgreSQL, Docker, GitHub Actions

- Developed a full stack web app for visualizing global internet usage by country to explore software market potential.
- Created unit and integration tests using **xUnit**, deployed version changes through Docker, and check usage with Supabase.
- Utilized Git workflows and CI/CD integration to ensure agile deployment cycles and version control compliance.

Poker Plan | Java, JavaFX, JUnit, Jira, Git

- Won best practices for documenting and application architecture design among 23 teams in ASU.
- Managed backlogs, sprints, and progression with **Jira, Figma** for creating UML diagrams for guides and documentations.

Code Capitalists | React.js, Tailwind CSS, Git

- Runner-up for Sun Hacks Hackathon** by redesigning a non-profit organization website using **React.js and TailwindCSS**.
- Utilized Figma for brainstorming and creating mid-fidelity vertical and horizontal prototypes for responsive components.