

# Quan Nguyen

(480) 862-4827 | Scottsdale, AZ, 85251 | [quannguyenanhnaq@gmail.com](mailto:quannguyenanhnaq@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## TECHNICAL SKILLS

**Languages:** Python, C#, SQL, Cypher, JavaScript

**Technical:** OS (MacOS, Linux, Windows), Flask, Docker, React.js, PostgreSQL, Cloud Computing (Azure, AWS), Git

**Concepts:** Software Development, Data Structures and Algorithms, Scrum (Agile) Methodologies, Database, Machine Learning, Artificial Intelligence, Computer Vision, Natural Language Processing, Image Analysis, Signal Processing

## 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 2027

**Certificates:** AWS Certified Cloud Practitioner (ID: AWS03875902)

## EXPERIENCE

### ASU Next Lab

October 2025 – Current

Next Lab Associate – AI/ML

Tempe, AZ

- Incoming associate for AI Guild, producing novel solutions to XR-based learning.

### 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 C#-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.

### Hunter AI | Python, Flask, scikit-learn, TF-IDF, Git

- Built a text classifier using **TF-IDF** and ML models to detect AI-generated vs. human-written content with 70%+ accuracy.
- Analyzed feature importance to interpret model predictions and uncover biases in probabilistic text classification.