Qadeerullah Syed

San Jose, CA|My Website|qadeer2syed@gmail.com|LinkedIn| GitHub|+1(669)-388-2070

EDUCATION

Master of Science, Computer Science **May 2025**
San Jose State University, San Jose, CA

Bachelor of Science, Computer Science **Jun 2022**
Osmania University, Hyd, India

EXPERIENCE

Teaching Assistant, San Jose State University **Aug 2024 - Jan 2025**
- Accomplished a 15% increase in average exam scores as measured by DBMS course assessment results, facilitated through tutoring, lectures and mentorship
- Improved resource accessibility for 60+ students by centralizing and automating distribution of lecture materials

Software Engineer, Deloitte **Jul 2022 - Jul 2023**
- Streamlined backend development, architecture and API integration for a Fortune 500 financial institution
- Designed, enhanced and deployed workflow of over 12 APIs, increasing system efficiency by 15%
- Reduced security vulnerabilities by 40% as reflected by incident reports by refactoring legacy infrastructure

SKILLS

- **Languages:** Java, Python, C++, JavaScript, SQL, R-Programming, PostgreSQL, MySQL, TypeScript
- **Frameworks**: Spring, ReactJS, Flask, REST API, PyTorch, OpenCV, TensorFlow, NodeJS, Scikit-learn, NextJs
- **Other**: Docker, Hadoop, AWS, Git, Hibernate, Keras

PROJECTS

MedFill - Automate Insurance Claims (AI - GitHub) **May 2025**
- Developed an application to automate insurance claims, reducing processing time by 80%
- Streamlined to extract info from referral packages and autofill PA forms in 90 seconds without human intervention

Fingerprint Reconstruction Using Diffusion Models (ML - GitHub) **Apr 2025**
- Enhanced fingerprint quality by 80% through reconstruction using DDPM with U-Net
- Designed a Deep Convolutional Network based fingerprint matcher with 92% accuracy scores

LLM Agent forDisease Diagnosis (ML - GitHub) **Oct 2024**
- Accomplished an average 15% lift in diagnostic precision by integrating a RAG pipeline along with CoT inference
- Reduced inference latency by 35% by batching requests and enhanced output quality by prompts using Langchain

Image generation using Transformers (ML - GitHub) **Apr 2024**
- Established a 15% decrease in FID score (24 → 20) as evaluated on MNIST/Fashion MNIST by tuning attention-head counts and hidden-layer sizes to enhance image quality
- Increased training throughput by 25% by parallelizing multi-head attention on GPU clusters

Vision Aid for Visually Impaired (ML - GitHub) **Nov 2023**
- Facilitated a 30% lower caption error rate, as calculated by BLEU score by customizing an LSTM encoder-decoder on VGG16 feature maps followed by training image sequences against labeled captions
- Optimized feature-extraction pipeline, cutting inference time by 20% through model quantization

ACTIVITIES

- Asian Regional Space Settlement Design Competition (ARSSDC) - Runners up among 40+ international teams
- Cal Hacks 24' - Project on automated 911 dialling service using VAPI and Fetch AI