NAMEERA KHAN

+1-806-535-3789 | nameerakhan1105@gmail.com | linkedin.com/in/khan-nameera | Lubbock, TX

SUMMARY

Applied AI Engineer with hands-on experience building LLM pipelines, RAG systems, and agentic AI architectures. Proven ability to deploy production-grade AI systems with measurable impact — from intelligent grading pipelines to distributed network monitoring. M.S. Computer Science candidate at Texas Tech University (GPA: 3.8/4.0), actively building at the intersection of applied AI and backend systems.

EXPERIENCE

Director — Program Development & Operations May 2025 – Present
Raiders Entrepreneurship Club, Texas Tech University (Rawls) · Part-time Lubbock, TX

- Designed and implemented automated workflows for program operations, scheduling, email sequences, and internal coordination — replacing manual processes across the center.
- Built tracking systems and dashboards to monitor program metrics, improving operational visibility and enabling data-driven decisions.
- Led cross-functional collaboration between student teams, faculty, and external stakeholders to plan and execute program milestones.

Graduate Research Assistant — Software Engineering Lead Aug 2024 – Jun 2025
Texas Tech University, WCOE Dept. of Computer Science · Part-time Lubbock, TX

- Led teams building production backend platforms with async execution and concurrent workloads, improving iteration speed by 30%+.
- Designed non-blocking APIs and background task pipelines, reducing latency and enabling scalable concurrent task handling.
- Mentored engineers on data structures, concurrency models, and clean system abstractions.
- Planned and executed milestone-based iterative releases, enabling teams to ship testable features on schedule.

Software Engineer Jul 2023 – Jul 2024
Rakuten Symphony · Full-time Indore, India

- Built and enhanced monitoring pipelines and data-driven tooling for distributed telecom network systems, reducing incident detection time by ~30%.
- Applied data analysis and early-stage AI techniques to identify failure patterns — enabling proactive issue detection and reducing recurring incidents.
- Improved mean time to resolution (MTTR) by ~20% through root-cause analysis tooling and observability enhancements across cloud-native Open RAN infrastructure.

Software Engineering Intern Mar 2023 – Jun 2023
Rakuten Symphony · Internship Indore, India

- Analyzed UAT and regression defect trends across cloud-native network modules, reducing post-release issues by 40%.
- Built structured defect analysis pipelines and release validation reports used for QA and engineering go/no-go decisions.

Software Engineering Intern Feb 2022 – Apr 2022
Cylsys Software Solution Pvt. Ltd. · Internship Mumbai, India

- Developed Node.js backend services with normalized MySQL schemas for healthcare data workflows.
- Implemented reusable APIs and components, reducing repeated operations by 25%+.

PROJECTS

NetSec Arcade — *AI-Powered Learning Platform*

- Built end-to-end RAG system over 1,000+ indexed chunks, optimizing retrieval pipeline to achieve <100ms latency.
- Designed AI-driven grading pipeline with embedding-based semantic comparison, achieving 85–95% semantic agreement across descriptive answers.
- Built async FastAPI inference pipeline with Redis caching and SSE streaming, supporting 30+ concurrent tasks without blocking.

AI vs Human Text Detection — *Applied Machine Learning System*

- Evaluated 6+ ML/DL models including fine-tuned classifiers and embedding-based approaches, achieving high-80% validation accuracy.
- Deployed real-time inference service with embedding-based feature extraction and confidence scoring.

Modular Visual Localization — *Applied ML Pipeline — KITTI Dataset*

- Built modular visual odometry pipeline over KITTI sequences with 99% convergence stability in sparse Jacobian optimization.
- Reduced trajectory drift through pose-graph optimization and smoothing techniques.

EDUCATION

Texas Tech University, Lubbock, TX Aug 2024 – May 2026
M.S. in Computer Science · GPA: 3.8/4.0

IPS Academy (Institute of Engineering and Science), Indore, India Sep 2020 – Apr 2024
B.Tech in Computer Science · GPA: 3.74/4.0

TECHNICAL SKILLS

Applied AI & ML: LLMs, RAG Systems, Agentic AI, NLP, Model Evaluation, Semantic Search, Anomaly Detection
ML Frameworks & Tools: PyTorch, LangChain, OpenAI API, Vector Databases, Hugging Face
Backend & Systems: FastAPI, REST APIs, Async/Concurrent Systems, Redis, Kubernetes, Microservices
Programming: Python, C++, SQL
Infrastructure: Docker, Git/GitHub, Linux