

Mohammed Amaan Ahmed Khan

773-993-6396 | mkhan226@asu.edu | [linkedin.com/in/amaankhan2000/](https://www.linkedin.com/in/amaankhan2000/) | github.com/AmaanKhan2000 | [Portfolio](#)

EDUCATION

Arizona State University

Master of Science in Data Science and Analytics

- GPA: 3.8 / 4.0

Tempe, AZ

Aug. 2024 – May 2026

SRM Institute of Science and Technology, Kattankulathur

Bachelor of Technology in Computer Science, Specialization in AI and ML

- GPA: 4.0 / 4.0

Chennai, TN, India

July 2018 – May 2022

EXPERIENCE

Cybersecurity Engineer - II

Verizon

July 2022 – August 2024

Hyderabad, India

- Integrated SSO for 6,300+ users, providing seamless access across systems and reducing repeated logins.
- Automated full Identity Lifecycle Management including RBAC to boost efficiency and enforce consistent security policies.
- Migrated 3,000+ enterprise apps from SAML to OAuth 2.0, centralizing access and ensuring compliance readiness.
- Implemented OAuth, MSSO, and MFA to strengthen authentication and reduce risks of unauthorized access.
- Trained 50+ team members on IAM, SDLC, and risk topics to improve secure coding and collaboration.

AI Full Stack Engineer Intern

Banao Technologies

June 2021 – September 2021

Bengaluru, India

- Built React-based E-commerce platform, reducing order processing time by 40% and improving customer interaction flow.
- Managed Django and Flask backend with SQL, boosting system reliability and backend efficiency by 30%.
- Debugged and resolved 50+ critical bugs to enhance application stability and user satisfaction across releases.
- Integrated an ML chatbot and upgraded to RAG-LLM, reducing support query response time by 60%.

Software Developer Intern

Across The Globe (ATG)

February 2021 – September 2021

Bengaluru, India

- Developed dashboards for public health projects using Chainbuilder architecture and modular JavaScript components.
- Converted mockups to web applications using HTML/CSS/JS, Flask, and ECharts for data visualization.
- Connected and processed public datasets using SQLAlchemy ORM with PostgreSQL for backend-driven data analytics.

PROJECTS

ChatBot using RAG LLM | *Python, Langchain, OpenAI, Streamlit*

Jan 2025 – May 2025

- Built a context-aware RAG chatbot using LLMs and vector search, reducing hallucinations by 70%.
- Achieved 90% response accuracy by fine-tuning embeddings and integrating document-based knowledge sources.

Road Scene Analysis using DeepLabv3+ | *Python, TensorFlow, Cityscapes*

Aug 2024 – Dec 2025

- Trained DeepLabv3+ on Lyft dataset for semantic segmentation; achieved 82% Intersection over Union (IoU).
- Reduced inference latency by 35% using quantization and model compression for edge deployment.

COVID-19 Severity Detection (CNN) | *Python, Keras, Medical Imaging*

June 2021 – June 2022

- Built CNN model for COVID-19 X-ray classification; achieved 87% F1-score for severity detection.
- Published work in peer-reviewed journal Applied Sciences and Technologies, Vol. 124, pp. 496–507.

TECHNICAL SKILLS

Languages & Stacks: Python, JavaScript/TypeScript, Java, C/C++, HTML5, CSS3, SQL, XML, JSON, Julia, C, MERN Stack

Frameworks & Libraries: React, Node.js, Express.js, Flask, .NET, FastAPI, scikit-learn, pandas, NumPy, Matplotlib, ECharts

Cloud & DevOps: Docker, Kubernetes, Git, Google Cloud Platform, Fortify Scan, Postman

Tools & Platforms: VS Code, PyCharm, IntelliJ, Visual Studio, JIRA, OAuth2, JWT, SSO, Google Analytics

Concepts: Machine Learning, LLMs, RAG Architecture, Data Structures & Algorithms