

Mohammed Amaan Ahmed Khan

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EXPERIENCE

Cybersecurity Engineer - II

Verizon

July 2022 - August 2024
Hyderabad, Telangana, India

- Integrated single sign-on solutions to provide 6300+ users with seamless access to multiple systems using a single set of credentials.
- Developed and enforced more than 1000 access control policies using ForgeRock, SAML, etc. to assure only authorized personnel.
- Administrated 100% end-to-end identity lifecycle management processes, including onboarding, offloading, and role changes, to streamline operations and enhance security.
- Collaborated with cross-functional teams to analyse business requirements and translate into IAM solutions; decreased risks by 22%.
- Migrated over 3000+ In-house applications and implemented ForgeRock policies to ensure easier management and increasing compliance. Implementation of OAuth, MSSO and Multi factor Authentication for secured user experience and mitigating risk of unauthorized access.
- Developed and executed a multi-layered cybersecurity strategy to safeguard critical infrastructure; initiative produced a 35% decrease in security incidents, surpassing an initial target of reducing threats by 20%.
- Directed team meetings and collaborated a team of 4 in working towards a secure portal by adding DUO security and accomplishing fingerprint authorization to enter into its portal.

Web Developer Intern

Banao Technologies

June 2021 - September 2021
Bengaluru, Karnataka, India

- Developed and deployed interactive data visualizations using D3.js, ECharts, and ReactJS for educational and policy research projects.
- Built responsive front-end components and integrated them with FastAPI and PostgreSQL backends.
- Wrote modular, test-driven Python code following Agile sprints and documented with unit/functional tests.
- Used Git for version control and collaborated on feature planning via JIRA.
- Participated in code reviews, enforced REST API standards, and optimized existing modules for performance improvements.

Research Assistant – Machine Learning and AI

Across The Globe (ATG)

February 2021 - September 2021
Bengaluru, Karnataka, India

- Conducting applied research in **machine learning**, **generative AI**, and **computer vision** under the direction of faculty.
- Developing and training **machine learning models** to evaluate performance across different datasets and research objectives.
- Assisting in the creation of **research manuscripts for publication**, ensuring adherence to academic standards and scientific rigor.
- Demonstrating the ability to work both **independently and collaboratively** in a research-driven environment, managing project timelines and deliverables.
- Taking **ownership of research tasks**, troubleshooting issues during training and deployment phases, and proposing solutions to improve model outcomes.

PUBLICATIONS

- Author(s): Mohammed Amaan Ahmed Khan, Senthil Kumar, Rohan Rony Varughese.
- Title of Paper: CNN based COVID-19 Severity detection and its Diagnosis.
- Journal/Conference & Publication: Advances in Science and Technology (Volume 124) February 2023.

PROJECT EXPERIENCE

- Pioneered a scalable Ecommerce infrastructure (Wallrus Company) to control significant traffic volumes, with a platform now positioned to support an increase to 50,000 users without performance degradation.
- Redesigned, customized and defined 15+ MERN stack projects and programmed 10+ clone projects as an individual to expand proficiency and fluency in technical concepts of Software Development.

EDUCATION

Masters of Science in Data Science and Analytics

Arizona State University (ASU) - Tempe, AZ, USA

Expected August 2026

Bachelors of Technology in Computer Science and Engineering

SRM Institute of Science & Technology -Kattankulathur, India

May 2022
CGPA : 8.96/10

SKILLS

Technical Skills: Python, JavaScript, TypeScript, C++, Java, Julia, SQL, HTML5, CSS3, Laravel, Django, Flask, FastAPI, ReactJS, MERN Stack, Data Integration, Data Modeling, Git, GitHub, GitLab, Postman, Docker, Linux Server Administration, Terminal, Shell Scripting, Unit Testing, Functional Testing, CI/CD, Agile Methodologies, SSDLC, Version Control, Application Security, Wireframing & Prototyping, Interactive Dashboards, Multi-screen UI, Chainbuilder, Data-Driven Documents, Scientific Modeling, Object-Oriented Programming (OOP), MVC Architecture, Microservices, Google Analytics, GSuite, Microsoft 365, Machine Learning, Generative AI, Computer Vision, Model Training, Model Evaluation, Research Manuscript Development, Jupyter Notebooks, LaTeX, ASU Resources (myASU, Outlook, Help Center), Academic Research Tools.

Soft Skills: Analytical Thinking, Problem Solving, Attention to Detail, Team Collaboration, Communication Skills, Leadership Experience, Initiative, Creativity, Adaptability, Self-Motivation, Time Management, Flexibility, Critical Thinking, Mentorship, Project Ownership, Effective Communication, Independent Research, Instruction Interpretation, Motivated and Organized, Ownership Mindset