

SAMEER KHAN

Linthicum Heights, Maryland

Immigration Status: US Citizen

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EDUCATION

University of Maryland, Baltimore County

Master of Science, Information Systems - (Artificial Intelligence and Cybersecurity Concentrations)

May 2025

GPA: 3.88 / 4.00

Bachelor of Science, Information Systems

December 2023

TECHNICAL EXPERTISE

- **Cloud/Virtual:** AWS, Google Cloud Platform, Microsoft Azure, Docker
- **Languages:** Python, Javascript, Java, C++, SQL, HTML, CSS, Bash
- **Tools & Platforms:** VSCode, GitHub, Microsoft Office, WinSCP, IntelliJ, Visual Studio
- **Security Tools:** Wireshark, Nmap
- **Operating Systems:** Windows, Linux, macOS
- **Core Concepts:** Data Structures & Algorithms, Object-Oriented Programming and Security Algorithms

PROFESSIONAL EXPERIENCE

Event Programmer

Baltimore, MD

Student Events Board - University of Maryland, Baltimore County

April 2022 - December 2023

- **Managed execution of 100+ campus events per semester**, increasing student engagement by **30%**.
- Orchestrated large-scale events with **over 10,000 attendees**; ensured flawless execution and **maintained a 98% satisfaction rating** from post-event surveys collected from participants to gauge overall experience.
- Researched and implemented new event strategies, **boosting campus participation across 12,000+ students**.

INTERNSHIP EXPERIENCE

Artificial Intelligence Intern

June 2025 - August 2025

Maryland Department of Public Safety and Correctional Services

- Analyzed **COBOL CCH architecture** and documentation to **support modernization planning** with **Java** and **SQL**.
- Researched **data structure** across systems such as **OCMS** and **MAFIS** to map integrations into the state's criminal history system.
- Collaborated with other departmental teams to identify opportunities for **automating legacy system migration** and **documentation**.

PROJECTS & RESEARCH

Linux Home Lab & Media Server Deployment - Personal Project

August 2025 - Present

- Deployed and administered an **Ubuntu** Server homelab, configuring users, permissions, storage, and system services using Linux tools.
- Installed and maintained **Plex** and **Plexamp** for media streaming, managing **SSH access**, **firewall rules**, with consistent system updates.
- Integrated **Samba file sharing** to enable **direct media transfers** from personal machines for automatic Plex library updates.
- Monitored logs and system performance to troubleshoot service issues and **improve uptime** in a production-like Linux environment.

Linux Server Hosting & Network Services - Personal Project

June 2025 - October 2025

- Built and managed an **Ubuntu** server to host internal services and test applications whilst enforcing **role-based access controls**.
- Deployed services using **Docker** and standard Linux utilities to support **modular application** hosting and simplified maintenance.
- Performed **system monitoring**, **log analysis**, and **network troubleshooting** to improve reliability and document repeatable deployments.

Pokémon Trainer Tracker - Graduate Project

January 2025 - May 2025

- Engineered a **full CRUD system** with **Java**, **Derby DB**, and **auto-generated REST services** for Trainers, Pokémon, and Battles.
- Built a **Java Swing** and **Kivy** mobile interface, integrating **JSOUP** scraping to fetch and display real Pokémon stats.
- Implemented **rule-based validation**, custom UI components, and **GlassFish** deployment to ensure reliable multi-platform operation.

Laboratory Inventory Management System (LIMS) - Capstone Project

August 2023 - December 2023

- Led a **6-member team** to develop a **real-time inventory tracking system** for **UMBC & Howard University Hospital**.
- Reduced **manual tracking errors by 50%**, enhancing inventory accuracy by **40%** and reducing stock discrepancies.
- Composed **custom restocking alerts**, cutting down inventory shortages by **30%**.