

Muhammad Abbasi

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EDUCATION

University of Maryland Baltimore County

Bachelors of Computer Science

Catonsville, MD

Aug. 2021 – May. 2025

EXPERIENCE

MileOne

Systems Administrator Intern

Towson, MD

May 2024 - August 2024

- Utilized Kace ticketing system to efficiently manage and track incident resolution.
- Leveraged ManageEngine AD to oversee Active Directory processes, automate routine tasks, and ensure compliance with security standards.
- Developed and executed Bash and PowerShell scripts to automate system administration tasks, including user account management, software deployment, and log analysis.
- Collaborated with IT team members to troubleshoot, providing Tier 1 and Tier 2 support for end users.

MileOne

Help Desk Agent

Towson, MD

May 2023 - May 2024

- Performed user account provisioning, including account creation, position changes, and terminations in Active Directory.
- Provided real-time troubleshooting and technical assistance improving first-call resolution rates on issues related to software, hardware, and network connectivity.

Undergrad Research Assistant

UMBC DAMS Research Group - Data Management and Privacy in IoT

Catonsville, MD

March 2025 - Present

- Worked on knowledge representation and reasoning to bridge the gap between raw sensor data and semantically meaningful insights.

Automotive Technician

Part Time

Catonsville, MD

Aug 2020 - Present

- Obtained ASE certificates A1 - A8

PROJECTS

Hand Gesture Image Controller: Python based computer vision project using OpenCV and Mediapipe that tracks hand gestures to display and manipulate images. First hand selects and moves images, while the second hand controls a slider for resizing. Implemented real-time hand tracking, finger detection, and interactive UI elements.

UMBC Interactive 4 Year course planner: Developed a full-stack web application to help UMBC students plan their academic journey. Users can input their major and completed courses to view remaining degree requirements and course options. Dynamically updated based on user progress and real time catalog data. Backend developed with Flask Python, Front end with React.js, User authentication managed via Clerk and database hosted on Firebase.

Subnet: Simulation of a Network system coded in Python created with docker. Used to test TCP and UDP connection between a system of host servers, routers and client servers. Implemented with ipv4 and ipv6 connections for data transfer and testing.

RELEVANT COURSEWORK

CS341 (Data Structures)

CS421 (Operating Systems)

CS313 (Assembly)

CS481 (Computer Networks)

CS411 (CPU Architecture)

CS441 (Algorithms)

CS447 (Software Engineering)

CS475 (Neural Networks)

CS461 (Database Management)

PROGRAMMING SKILLS

Programming Languages: Python, C/C++, Html, Css

Technologies: SQL, Figma, LaTeX, Docker, Linux, Pycharm, Clion, Matlab, GitHub, UTM, PuTTY

Languages: English, Urdu/hindi, Punjabi, Hindko/Pahari