Mohammad T Islam

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WORK EXPERIENCE

Umass Boston UNIX Lab   **Dorchester,Ma**

Lab Operator   *Sep 2022 - Present*

- Implemented regular checks on system status using Nagios monitoring tool, proactively identifying and resolving potential issues to maintain a 99.9% uptime record for the lab.
- Assisted students with troubleshooting technical issues, achieving a 95% success rate in resolving problems promptly and effectively.

PROJECT EXPERIENCE

Intro to Software Engineer

HikeMate

- Led a team of 7 as Product Owner, utilizing Scrum framework and managing the product backlog to deliver features for a hiking web application, including user authentication using Django REST Framework.
- Built the front-end interface and backend logic using React, JS, Bootstrap and Django.
- Reduced login time by 30% through optimized backend processes.

Desi Student Association

Ticket Scanner

- Built a Python-based barcode scanning system that automated ticket validation for 300+ attendees, boosting efficiency by over 70% compared to manual tracking.
- Using SQLite database, automating CSV-to-database conversion, and improving data management efficiency 20%, ensuring scalability for large events.
- Utilized OpenCV for barcode recognition and Flask for the backend, with a responsive interface built using HTML, CSS, Bootstrap, leading to a seamless user experience.

UNIX Lab

Bulk IP Address Checker

- Developed Python scripts to conduct automated scans on up to 100 IP addresses simultaneously, achieving a 98% accuracy rate in identifying and mitigating security threats.
- Reduced manual effort by 80%, streamlining IP address monitoring and vulnerability detection.
- Created comprehensive threat assessment reports and detailed location mapping, improving network security.

Pykota Python 2to3

- Migrated PyKota from Python 2 to Python 3 to ensure compatibility with modern Ubuntu systems, enhancing system stability and performance.
- Optimized print quota tracking, enhancing system reliability and boosting user management efficiency by 30%.

EDUCATION

University of Massachusetts Boston   **Dorchester, Ma**

Bachelor of Arts in Computer Science   *Graduation Date: May 2025*

SKILLS & INTERESTS

Programming Languages: Python, C, JavaScript, Java

Others: HTML, CSS, SQL, React, Postgres, SQL Lite, Axios, Django, Flask

Tools: VS Code, Github, Intelli J, MS Office, PyCharm, Linux, Dbeaver, Oracle, Git

Others: Graphic Design, Adobe Photoshop, Lightroom, Adobe Premiere Pro, Leadership, Collaboration, Communication