Ashna Ali

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EDUCATION

University of Missouri-Kansas City, MO   **December 2024**
Master of Science in Computer Science   GPA 3.54
Data Science Emphasis

Bachelor of Science in Computer Science   **May 2023**
                                                    University Honors, GPA 3.25

SKILLS

Computer Skills:
- **Tools:** AWS, MongoDB, GitHub, Microsoft Teams/Office, Visual Studio Code, TensorFlow, PyTorch, MySQL, Docker, Flask, NodeJS, NextJS, Express, Redux, Microsoft SQL, Java Swing, Keras, ESP32, Arduino, ScikitLearn, JIRA
- **Languages:** Java, Python, C++, C#, ReactJS, SQL, JavaScript, ASP.NET
- **Technical Skills:** Troubleshooting, Agile Development, Data Preprocessing, Cloud Computing, IoT

PROJECTS

AI Powered Diabetes Health Coach App   **August 2024-December 2024**
- Developed and led the implementation of an AI-driven diabetes prediction system using gender-specific XGBoost models, getting 80-90% accuracy in total. Landed 3rd place in my UMKC Hack-a-Roo with my project submission

Mining Worker Safety Helmet IoT System   **August 2024-December 2024**
- An IoT system designed to be an emergency alert system for miner. Uses a combination of Arduino Uno and ESP32 as well as ReactJS for the frontend. Enhances worker safety in hazardous environments by enabling real-time monitoring and rapid emergency response.

Healthcare Data Encryption Application   **June 2024-July 2024**
- Developed a web application demonstrating a hybrid solution combing AES, ECC, and post-quantum cryptography for healthcare data storage. Improves the security and future-proofing of sensitive healthcare data against evolving cyber threats.

Deep Learning Course Final Project   **January 2024-May 2024**
- Developed custom CNN models for image classification, experimenting with datasets like CIFAR-10 and Tiny ImageNet. Advanced image recognition capabilities by optimizing model performance on benchmark datasets.

Graduate Teaching Assistant Job Board   **January 2023-May 2023**
- Created a Graduate Teaching Assistant application portal with separate student and administrator views. Streamlines the GTA hiring process, improving transparency and efficiency for students and faculty.

EXPERIENCE

Missouri Institute of Defense and Energy - UMKC   Kansas City, MO
Graduate Student Research Assistant   **May 2023-August 2023**
- Conducted research on machine learning models, primarily in image classification and segmentation

Oracle Cerner Corporation (Oracle Health)   Kansas City, MO
Technical Apprentice   **August 2019-Nov 2021**
- Developed and optimized features for a patient symptom tracking system, enhancing usability and performance.

REFERENCES

Balakrishna Thiagarajan
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