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

EXPERIENCE

Missouri Institute of Defense and Energy - UMKC — Kansas City, MO
Graduate Student Research Assistant — **May 2023-August 2023**

- Conducted research on machine learning techniques for image classification and segmentation, contributing to defense-focused projects.
- Evaluated multiple deep learning architectures using TensorFlow and PyTorch for performance in identifying complex visual patterns.
- Assisted in preprocessing large datasets, including image annotation, normalization, and augmentation for training neural networks.
- Collaborated with faculty and fellow graduate researchers to document findings and present insights in lab meetings.
- Gained hands-on experience with model training pipelines, performance evaluation metrics, and GPU-accelerated workflows.

Oracle Cerner Corporation (Oracle Health) — Kansas City, MO
Technical Apprentice — **August 2019-Nov 2021**

- Transitioned into full-time apprentice role after a high school internship based on strong performance.
- Contributed to the HomeCare and Integrated Charting teams, enhancing patient symptom tracking features.
- Participated in Agile/Scrum ceremonies (stand-ups, sprint planning, retrospectives).
- Collaborated with cross-functional teams to debug, troubleshoot, and optimize features in real-world healthcare systems.
- Strengthened professional software engineering skills and used tools like GitHub, JIRA, and Cerner's internal platforms.
- Developed web application frameworks using ReactJS to support clinical documentation workflows for physicians and nurses.
- Created RESTful APIs with NodeJS to provide mock data integration and support frontend functionality.

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.

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.