

Ashna Ali

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EDUCATION

University of Missouri-Kansas City, MO
Master of Science in Computer Science
Data Science Emphasis

December 2024
GPA 3.54

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, Azure, GCP
- **Languages:** Java, Python, C++, C#, ReactJS, SQL, JavaScript, ASP.NET, TypeScript
- **Technical Skills:** Troubleshooting, Agile Development, Data Preprocessing, Cloud Computing, IoT

PROJECTS

Early Detection of Pancreatic Cancer Using Machine Learning (In Progress)

April 2025-TBD

- Collaborating with St. Luke's to build a hybrid ML and imaging-based model to identify early-stage pancreatic cancer from retrospective clinical and diagnostic data

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 combining 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.

EXPERIENCE

Missouri Institute of Defense and Energy - UMKC

Graduate Student Research Assistant

Kansas City, MO
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)

Technical Apprentice

- 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 development skills and used tools like GitHub, JIRA, and Cerner's internal platforms.

Kansas City, MO

August 2019-Nov 2021

