Ashna Ali

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Portfolio Website

OBJECTIVE

To obtain a part-time position during my final semester as a graduate student, leveraging my expertise in machine learning and Al. I aim to gain technical and professional experience in these fields. Post-graduation, I seek full-time opportunities in machine learning/Al or software development to apply and further develop my skills acquired through my education and experience.

EDUCATION

University of Missouri-Kansas City Master of Science in Computer Science **Expected December 2024**

University of Missouri-Kansas City Bachelor of Science in Computer Science

May 2023 University Honors, GPA 3.25

SKILLS

Technical Skills	 Full stack knowledge (database, back end, front end) Python skills with Tensorflow and Pytorch Web-development skills
Programming Languages	 Java Python C++ C# ReactJS SQL
Soft Skills	 Good Communication Troubleshooting Work independently of with a team Ability to work in an agile environment Flexible
PROJECTS/ACTIVITIES/CLASSES	
Applied Cryptography (Summer 2024)	 Mastered advanced cryptographic algorithms: symmetric/asymmetric encryption, hashing, digital signatures, and privacy-preserving techniques. Led front-end development of a web application integrating AES, ECC, and post-quantum cryptography for healthcare data privacy. Deployed the application on a PostgreSQL database within Docker, successfully applying post-quantum cryptography to existing healthcare solutions.
Cloud Computing (Spring 2024)	 Gained expertise in AWS, Microsoft Azure, and Google Cloud Platform. Developed a web application that deployed GitHub projects in Docker containers, with a focus on front-end development using Next.js and ReactJS. Integrated AWS services (Elastic Container Registry, S3 storage) for seamless deployment; project won first place in a class competition.

Oracle Cerner Corporation Kansas City, MO	Cerner Scholar Apr-May 2019 Through Northland CAPS, worked with the Clinical Center Development team and learned test automation using Eggplant
	Learned and applied web development skills and worked on small projects for the Integrated Charting team. Main solution was a web application that tracked patient's symptoms and diagnoses.
Oracle Cerner Corporation Kansas City, MO	Technical Apprentice May 2019-Nov 2021
	Conducted research on machine learning models (mainly image classification and segmentation) using Tensorflow and Pytorch while assisting fellow graduate/Ph.D students with their projects.
WORK EXPERIENCE University of Missouri-Kansas City Missouri Institute of Defense and Energy Kansas City, MO	Graduate Student Research Assistant May-August 2023
	 group chats, leading to the successful delivery of all project features. Achieved an 'A' grade upon project completion after refining and presenting the final application.
	 management to handle both student and administrative views. Addressed challenges in team communication and focus by instituting sprint due dates and leveraging
	UMKC using the MERN stack (MongoDB, Express, ReactJS, NodeJS). Optimized the project by implementing Redux for state management to handle both student and administrative.
Software Engineering Capstone (Spring 2023)	Coordinated a team of four to engineer a Graduate Teaching Assistant application submission portal for LIMKC using the MERN stack (Managers Express).
	robust functionality. • Managed the integration with a Microsoft SQL database, optimizing data retrieval and storage for quick access to customer records.
	Swing for a receptionist at an energy supplier, enabling efficient lookup of customer billing information and bill generation. • Engineered both the front-end and back-end components, ensuring a seamless user experience and
Java Programming	Developed a desktop application interface in Java
	 Applied transfer learning with VGG19 and ResNet, enhancing model accuracy across multiple datasets. Fine-tuned models for complex tasks and evaluated memory retention and functional gain. Implemented segmentation and style transfer techniques, experimenting with ROI localization and artistic transformations.
Deep Learning	Developed custom CNN models for image classification and optimized performance using CIFAR-10 and Tiny ImageNet datasets. Applied transfer less raises with VCC10 and ResNet.

Cobblestone Family Health Liberty, MO

Used risk stratification organize patient records using electronic health system

Risk Stratification Oct 2017-Jan 2018