Ashna Ali

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OBJECTIVE

To obtain a part-time position during my final semester as a graduate student, leveraging my expertise in machine learning and AI. I aim to gain technical and professional experience in these fields. Post-graduation, I seek full-time opportunities in machine learning/AI 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

- **Knowledge**: learned about different cryptographic techniques, algorithms, and applications
- **Technologies**: Python libraries – 'pcrypto', 'ecdsa', 'pqcrypto', etc., Docker, Flask, PostGreSQL
- **Project Description**: group project web application that demonstrates a hybrid solution of combining Advanced Encryption Standard, Elliptical Curve Cryptography, and Post-Quantum Cryptography for data storage of healthcare data
- **Role**: front-end development

Cloud Computing

- **Knowledge**: Learned about several computing services such as AWS, Google Cloud Platform and Microsoft Azure
- **Technologies**: NextJS, Docker, AWS ECR and ECS, AWS S3 Buckets, Express, NodeJS
- **Project Description**: group project web application that took any ReactJS application from Github and build/deployed it in the cloud. Earned first place in the competition based on our submission and recognition from the professor
- **Role**: front-end development

Java Programming

- **Technologies**: Java, Java Swing, Microsoft SQL
- **Project Description**: Created a desktop application interface used by a receptionist at energy supplier to look up customer's billing information and generate bills.
- **Role**: front-end development, back-end development, database management

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Software Engineering Capstone

- **Project**: UMKC Graduate Teaching Assistant Job Posting Web Application
- **Technologies**: MERN stack (MongoDB, Express, ReactJS, NodeJS)
- **Description**: Developed an application in display various job postings for graduate classes to apply as Graduate Teaching Assistants
- **Role**: front-end development, back-end development, database management, API configuration

WORK EXPERIENCE

University of Missouri-Kansas City
Missouri Institute of Defense and Energy
Kansas City, MO

Graduate Student Research Assistant
May-August 2023

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.

Oracle Cerner Corporation
Kansas City, MO

Technical Apprentice
May 2019-Nov 2021

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.

Cerner Scholar
Apr-May 2019

Through Northland CAPS, worked with the Clinical Center Development team and learned test automation using Eggplant

Cobblestone Family Health
Liberty, MO

Risk Stratification
Oct 2017-Jan 2018

Used risk stratification organize patient records using electronic health system