

Nooreen Fatima

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Willing to relocate • No Sponsorship Required • Actively expanding knowledge in modern technologies.

PROFESSIONAL SUMMARY

Software developer with experience in handling very large amounts of data on Cloud Platforms, performing analysis and dashboards as well as creating data pipelines. Currently expanding knowledge in usage of AI in web development. Background includes academic and project-based work (on Github as well) in database management systems, data structures and algorithms, computer vision and AI, with a strong focus on solving real-world problems. Committed to continuous learning, delivering high-quality user experiences, and contributing meaningfully in a collaborative, in-person environment.

SKILLS

Languages: Python, Java, C/C++, SQL, HTML, CSS, JavaScript

Frameworks/Libraries: Flask, SpringBoot, TensorFlow, Sklearn, OpenCV, Pandas

Cloud & DevOps: AWS, GCP, Docker, Git

Databases: Postgres, MySQL, MongoDB

Tools & Design: Figma, Canva

EDUCATION

University of Missouri - St. Louis

2023 - 2025

Masters - Computer Science, GPA - 4.0

Certificate - Artificial Intelligence, GPA - 4.0

Certificate - Internet and Web, GPA - 4.0

Relevant Coursework: Database Management Systems, Data Structures, Algorithms, Web Development using React JS, Web development using SpringBoot, Microservices, Artificial Intelligence, Image Processing and Computer Vision (research work included)

EXPERIENCE

Graduate Teaching Assistant, University of Missouri - St. Louis

August 2024 - May 2025

- Developed Computer Vision Software, directly under Dr. Bhatia (Department Chair) which produced detection of insects in dynamic and unstable videos using image processing techniques at a rate of 30 frames per second.
- Assisted grading, tutoring and assessing 100+ student's coursework to multiple Professors in the department.

Data Science Engineer, Cognitive Cloud Analytics

Nov, 2022 – May 2023

- Software Development with research on telecommunications deployments and design dimensioning, latency and power optimizations in 5G communications.
- Worked with datasets with over 500K records for inference and analysis on GCP and Snowflake.

Data Science Engineer Intern, Bytve

Feb, 2022 – Oct, 2022

- Maintained and optimized a cloud-based data pipeline on GCP using PLX, processing datasets with over 200K records and supporting multiple downstream ML workflows.
- Developed Python-based web scrapers using BeautifulSoup and Scrapy to extract company review data and performed multifaceted NLP-based analysis.

TECHNICAL PROJECTS

Multiple Partial Object Detection in a Single Image using Segmentation and Elliptical Symmetry - Research [GitHub](#)

- A software which uses image processing and geometric operations to identify the location & labeling of objects in image
- Implemented using segmentation of all objects, image reconstruction and performing a detection algorithm.

Tools used: Python, Numpy, openCV, Math.

Event Management Website (Full Stack) [GitHub](#)

- A website used to manage all events on user and admin end with dynamic user interface and multiple endpoints.
- Designed responsive frontend using Figma, HTML, CSS, JavaScript, Bootstrap.
- Integrated Flask backend, MySQL database, and REST APIs for data management and authentication services.

Tools used: Python, Flask, HTML, Javascript, CSS, Bootstrap, MySQL, UML, REST APIs, MongoDB, Figma

LEADERSHIP AND VOLUNTEER EXPERIENCE

Speaker and Organizer - GenAI and LLMs [Website and Poster](#)

Aug, 2025

- Speaker and Organizer of multiple sessions in a Workshop at UMSL.

Program Associate, UMSL OIPE

April, 2024 - Oct, 2024

- Provided case management services to 5+ college students with special intellectual and developmental needs.

Governing Body Member, IEEE CIS (Computational Intelligence Society)

May, 2021 – May, 2023

- Responsible for organizing, mentoring, speaking and managing 10+ technical events and teams under IEEE.

Execom Head, MICROSOFT STUDENT SOCIETY

May, 2021 – Aug, 2022

- Responsible for organizing, mentoring, speaking and managing 10+ technical events and teams under MSS.