Wasey Mulla

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Education

The University of Texas at Dallas — Richardson, TX
Masters in Science in Computer Science, Track: Artificial Intelligence — *Aug. 2023 – May 2025*

The University of Texas at Dallas — Richardson, TX
Bachelor of Science in Computer Science — *Aug. 2019 – May 2023*

Technical Skills

Languages: Java, C++, Python, JavaScript, Typescript, HTML, CSS
Technologies:Spring Boot, Apache Kafka, Linux, React, React Native, JSX, Git, GitHub, JSON, Jupyter Notebook, Flask, Tkinker, Tailwind, Expo, Node.js
Database: MongoDB, SQLite, Oracle, MySQL, Microsoft SQL Server, PostgreSQL
ML/Data Science Libraries: NumPy, Pandas, PyTorch, Matplotlib, SciPy, Scikit-Learn, TensorFlow, Keras

Experience

INMO.AI - Machine Learning Engineer Intern — May 2023 – August 2023
Austin, TX

- Developed and maintained Java-based microservices using Spring Boot, improving the scalability and performance of backend services for real-time mortgage prediction.
- Utilized Apache Kafka for real-time data streaming and integration between microservices, ensuring seamless data flow and high availability.
- Implemented modular FAST API micro-services, containerized with Docker, to integrate the machine learning model with the user interface efficiently.

Atticus Capital - Software Engineering Intern — May 2022 – August 2022
Minneapolis, MN

- Built backend microservices with Java Spring Boot for an investment portfolio management platform, improving service reliability.
- Crafted a secure authentication system using Spring Security, enhancing the security and user management capabilities of the application.
- Utilized Apache Kafka for real-time data streaming between services, ensuring seamless communication and data flow.
- Directed the development of a cross-platform mobile application using JavaScript, React Native, JSX, Tailwind, and Expo, optimizing performance for a responsive user interface.

Projects

SnapMath: The Image-Powered Equation Solver — April 2024 – May 2024

- Developed a Convolutional Neural Network (CNN) capable of understanding handwritten numbers to solve mathematical problems, bridging the gap between physical and digital mathematics.
- Achieved 95% accuracy in interpreting handwritten mathematical symbols, variables, and operators using OCR technology integrated with CNNs and bounding box methodologies.
- Implemented a robust equation solving framework with Python, TensorFlow, Keras, SymPy, and visualization libraries, demonstrating significant advancements in accuracy.

University Graduate Office Degree Planning & Audit Tool — January 2024 – March 2024

- Accomplished 80% improvement in advisor response rate by implementing a user-friendly web application, streamlining degree planning and auditing processes for Graduate level Computer Science students at UTD.
- Enhanced efficiency through simplified data input by implementing a document scraper to extract key information from transcripts, automated data filling, enabled user verification, and generated degree plan audit and graduation audit reports.
- Leveraged HTML, CSS, JavaScript, PHP, SQL, and jsPDF for seamless interaction between front-end and back-end components, ensuring speed and accuracy in degree evaluations to create a full-stack application.