Wasey Mulla

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Education

The University of Texas at Dallas   *Richardson, TX* | May 2025
M.S. in Computer Science, Track: Intelligent Systems

The University of Texas at Dallas   *Richardson, TX* | May 2025
B.S. in Computer Science

Skills

Languages: Java, C++, Python, JavaScript, TypeScript, HTML, CSS
Tools: React, React Native, Tailwind, Git/GitHub, Unix/Linux, Flask, Figma, Node.js, Spring Boot, Apache Kafka
Databases: Microsoft SQL Server, MongoDB, MySQL, PostgreSQL
ML/Data Science: Pandas, PyTorch, Matplotlib, SciPy, Scikit-Learn, TensorFlow, Keras

Experience

HealthSci.Ai | *AI Engineering Intern*   *Remote* | Jan 2025 – May 2025

- Deployed TypeScript AI agent for real-time engagement on X (Twitter) and Telegram, raising visibility of company updates.
- Enhanced Eliza framework by creating multi-personality conversational agents, driving more natural and engaging interactions.
- Built RAG pipeline with embeddings for context-aware search, boosting engagement by 70%.
- Standardized Gitpod workflows for development/testing, streamlining collaboration and adding 1,000+ new social media followers

INMO.AI | *Machine Learning Engineer Intern*   *Austin, TX* | May 2024 – Aug 2024

- Scaled pipeline handling 50k+ text inputs/day by deploying NLP microservices with FastAPI, Docker for distributed processing.
- Reduced streaming latency 40% by integrating Apache Kafka for real-time communication across distributed NLP services.
- Delivered faster inference by designing low-latency REST APIs, improving responsiveness for downstream applications.
- Containerized and deployed NLP microservices on AWS S3, improving deployment speed for production use.

Atticus Capital | *Software Engineering Intern*   *Minneapolis, MN* | May 2022 – Aug 2022

- Built a cross-platform prototype mobile app with React Native for investment tracking and financial education.
- Designed and iterated UI/UX wireframes in Figma, then developed responsive front-end components integrated with backend APIs.
- Implemented secure authentication with JWT and collaborated on user access flows, improving account security and onboarding.
- Integrated REST APIs with Axios to display portfolio metrics, advisor contact, and goal-based tracking features for student investors.

Projects

PhotoSentry: Smart Image Quality Filter | *Java, Spring Boot, React Native, TensorFlow, Docker*

- Built asynchronous backend with Java Spring Boot to process image uploads, reducing classification latency by 40%.
- Fine-tuned MobileNetV2 with transfer learning and augmentation, achieving 92% validation accuracy in detecting image defects.
- Integrated backend with FastAPI inference server to automate TensorFlow model predictions.
- Deployed full-stack system via Docker Compose, combining React frontend, backend, and ML model into production ready stack.

SnapMath: Image-Powered Equation Solver (Research Project) | *Python, TensorFlow, Keras, SymPy*

- Implemented a Convolutional Neural Network (CNN) from scratch with bounding box preprocessing to digitize handwritten math equations, outperforming standard OCR libraries.
- Trained a CNN for handwriting recognition, reaching 95% accuracy in classifying mathematical symbols, variables, and operators.
- Improved recognition of handwritten equations on digital screens, bridging physical math input with reliable digital computation.
- Integrated CNN outputs with SymPy to create a framework that enables automated solving of handwritten math problems.

UT Dallas Graduate Office Degree Planning Tool | *HTML, CSS, JavaScript, PHP, SQL, jsPDF*

- Developed a web application which streamlined degree planning, graduation audit, and class recommendations.
- Implemented drag-and-drop functionality for degree track courses and manual elective entry to simplify advisor workflows.
- Created an admin page for updating course offerings, degree tracks, and GPA requirements without backend changes.
- Automated transcript parsing and GPA calculation with jsPDF, driving an 80% improvement in advisor response rate during peak graduation and course registration days at UT Dallas.