Ali Nawab

214-597-1122 | mxn210071@utdallas.edu | github.com/yaboiali | bit.ly/Alis-Portfolio | linkedin.com/in/alinawb

EDUCATION

University of Texas at Dallas **Graduation**: May 2026
Bachelor of Science, Computer Science *GPA: 3.7/4.0*
Relevant Coursework: Data Structures, Algorithms, Software Engineering, Deep Learning, Machine Learning, Natural Language Processing, Artificial Intelligence, Statistics, Computer Architecture, Distributed Systems
Technical Skills: Python (Intermediate), **Java** (Intermediate), **C++** (Beginner), **C#** (Beginner), **JavaScript** (Intermediate)
Others: React.js, Node.js, Firebase, Express, GraphQL, Flask, Spring boot, ASP.NET, Flutter, Jenkins, Spark

EXPERIENCE

Palantir | Software Engineer intern **January 2025 – March 2025**

- **Engineered a high-throughput ABS bond evaluation system** leveraging **async I/O**, **custom NLP parsing**, and sophisticated automation workflows to extract and normalize unstructured debt package data, compute expected value (EV) distributions, and trigger real-time alerts—enabling a PE client to identify and **secure 50x** more high-EV assets compared to previous capabilities.
- Authored 40,000+ lines of production code to build end-to-end Foundry/Typescript workflows—spanning initial customer discovery and **scoping** to **full production rollout** for 3 workflows—reducing manual intervention and accelerating data processing by **74%**.
- **Developed a real estate analytics pipeline** processing and enriching data for over **3 million properties**, leveraging external APIs and advanced parsing techniques to proactively issue distressed property alerts approximately **7 days sooner** than traditional broker notifications—enabling clients to bid earlier, secure advantageous deals, saving **millions of dollars** per transaction.

Target Inc. | AI Software Engineer Intern **September 2024 – January 2025**

- Built ML models using **PyTorch** to automate knowledge curation, enhancing decision-making in socio-economic systems.
- Integrated knowledge graphs with neural networks using **Neo4j** and **RDF/SPARQL**, improving synthesis capabilities.
- Used **HuggingFace**, **spaCy**, and **NLTK** to synthesize datasets with **NLP**, reducing process time by **30%,** improving accuracy by **20%.**
- Optimized data management workflows using NoSQL databases, ensuring efficient and scalable data processing pipelines.

Meta | Software engineer Intern - MLH Fellow **June 2024 – September 2024**

- Selected as 1 of 50 students from a 5,000+ applicant pool to collaborate with Meta engineers, contributing to scalable Al inferencing pipelines.
- Containerized ML workloads using **Docker** and **Kubernetes**, fostering robust AI integration in production environments.
- Optimized **GPU** resource scheduling and fine-tuned microservices, reducing system downtime by **5%** and supporting high-performance system operations.
- Streamlined **CI/CD** processes by automating over **600+** pull request verifications with Jenkins pipelines, enhancing automated testing and deployment workflows

PROJECTS

Meddy: *Back-end Engineer* **–** https://meddy-kqfo.vercel.app/

- Led backend architecture and development for an AI-driven healthcare assistant delivering voice-based medical insights, treatment reminders, and real-time Q&A.
- Designed microservice-based architecture using **AWS EC2** for compute, **Lambda** for serverless function execution, and **DynamoDB** for low-latency **NoSQL storage**.
- Integrated **Gemini API** for LLM-powered medical responses and **Firebase** for auth and secure data sync.

AI Research: *Llama.cpp Integration* **January 2024 – March 2024**

- Researched MetaAl's **LLaMA2** to assess **its Natural Language Processing** capabilities, evaluating prompt engineering quality and response performance through analytical metrics
- Trained and integrated an **LLM** on the CS Genome Organizations website, automating question answering of CS Genome processor descriptions and general **HPC** computing topics (**5-15 sec.** response time with **85%+ accuracy**)

Study Buddy: *Full stack Engineer* – bit.ly/StudyBddy **September 2023**

- This full-stack web app allows users to create and share flashcards,
- Used **MongoDB** with **GraphQL** and **Apollo** to handle the database and **JSON** web tokens and **bcrypt** to manage user logins.

LEADERSHIP

Valley Ranch Community Center | Computer Science Tutor **June 2023 - Present**

- Designed and taught a weekly CS curriculum (Python, web dev, intro ML) for **25 +** high-school students, lifting average project-assessment scores from 70 % to 92 % in one term.
- Hosted quarterly hackathons and outreach workshops, leading teams to 3 regional competition wins and securing $4 k in grants for new lab hardware.