

ABDIKARIN MOHAMED

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EDUCATION

The University of Texas at Austin

Dec 2027

Master of Science in AI and Machine Learning

Relevant Coursework: Advanced Deep Generative Models, Online Learning and Optimization

University of Minnesota – Twin Cities

Dec 2024

Bachelor of Science in Computer Science

TECHNICAL SKILLS

- **Skills:** Python, PyTorch, OpenCV, LLMs, RAG, C++, Java, REST APIs, AWS, Kotlin

EXPERIENCE

American Express

Jan 2025 – Present

Software Engineer - AI

Phoenix, AZ

- Developed **Python**-based data pipelines and **AI-agent workflows** enabling natural-language analysis of offer data, automating portions of the review process and reducing review cycles from **8–9 days** to **2–3 days**.
- Analyzed and transformed **500K+ monthly partner payloads** using **Python** and **SQL**, building validation, enrichment, and feature-engineering pipelines that improved downstream data quality and reduced processing failures by **30%**.
- Designed evaluation and monitoring frameworks for **AI-agent performance**, tracking response accuracy, retrieval relevance, failure patterns, and manual-review rates to identify improvements and increase reviewer acceptance by **20%**.

American Express

Jun 2024 – Aug 2024

Software Engineering Intern

Phoenix, AZ

- Developed backend systems for **high-volume transaction ingestion pipelines**, processing merchant payment data at scale.
- Built a **data ingestion and transformation pipeline** using Apache Camel to improve reliability and throughput of transaction processing.
- Implemented secure **data handling and preprocessing utilities** for sensitive financial data, ensuring compliance and integrity.

Microsoft

Jun 2023 – Aug 2023

Software Engineer Intern - AI

Redmond, WA

- Built an **AI-powered conversation simulator** using **NLP** and **text-to-speech** technologies that enabled individuals with speech impairments to practice real-world conversations in a safe, interactive environment.
- Developed a responsive frontend using **React**, **TypeScript**, **Redux**, and **Material-UI**, enabling customizable AI-driven conversation scenarios such as job interviews, customer service interactions, and everyday conversations.
- Designed AI-driven conversation workflows that generated context-aware dialogue to help users improve communication fluency, build confidence, and rehearse real-world interactions before engaging with others.
- Presented the application and its technical implementation to **Microsoft VP leadership**, showcasing the product's accessibility impact, user experience, and AI capabilities.

PROJECTS

Multi-Agent Investment Research Platform

Present

- Building specialized AI agents that research stocks, analyze financial data, and generate investment insights using LLMs, RAG, tool calling, and memory.