Yusuf Shaikh

617-504-3703 | yshaikh113@outlook.com | yfshaikh.com | linkedin.com/in/yfshaikh | github.com/yfshaikh

EDUCATION

University of Texas at Dallas   Richardson, TX
Bachelor of Science in Computer Science   *Expected May 2027*
- GPA: 3.9
- Hobson Wildenthal Honors
- AES Scholar
- Relevant coursework: Advanced Algorithm Design, Software Engineering, Operating Systems, Linear Algebra

TECHNICAL SKILLS & CERTIFICATIONS

Languages: Python, Java, C++, JavaScript, TypeScript, HTML, CSS, SQL
Libraries/Frameworks: Node.js, Express, Flask, React, Next.js, MongoDB, Firebase, Docker, Kubernetes, TensorFlow, PyTorch, AWS
Certifications: AWS Certified Cloud Practitioner, Convolutional Neural Networks in TensorFlow (DeepLearning.AI)

EXPERIENCE

ML Intern   August 2024 – December 2024
Cengar.AI   *Irving, TX*
- Developed and implemented a full-stack automated blog application using React and Flask, resulting in a **30% increase in user engagement** within the first month.
- Integrated web-scraping with Beautiful Soup, OpenAI embeddings, Langchain, and ChromaDB to create an efficient architecture, reducing data processing time by **40%**.

Lead Fullstack Developer   August 2024 – December 2024
The Warren Center   *Richardson, TX*
- Developed, implemented, and deployed an inventory system that tracks devices across **3 campuses**, enabling real-time monitoring of device checkouts and reducing lost devices by **30%**.
- Implemented QR code tracking and designed a SQL database schema to efficiently manage over **300 devices**, streamlining the checkout process and **cutting manual tracking time by 40%**.

PROJECTS

Greenify | *Next.js, Tailwind CSS, Flask, Pinecone, GPT-4, LangChain*   November 2024
- Developed a multi-functional management dashboard to help **CBRE** reduce emissions and achieve sustainability goals, winning **First Place** at **HackUTD 2024**.
- Implemented a **personalized chatbot** using **Retrieval Augmented Generation (RAG)**, leveraging **LangChain** for pipeline orchestration, **Pinecone** for vector embeddings, and **GPT-4 API** for contextual responses.
- Scraped and converted annual corporate reports to JSON, extracted key data using **Llama**, and optimized the pipeline for cleaning, formatting, and embedding storage.

ASL Detector | *TensorFlow, MediaPipe, OpenCV, Next.js, Flask*   March 2025
- Built a real-time **ASL recognition system** using **MediaPipe** for keypoint extraction and an **LSTM neural network** in TensorFlow, achieving **98.43% accuracy** on gesture classification.
- Developed a full-stack **Next.js + Flask** web app to serve the model, enabling live video input and dynamic confidence adjustment for gesture predictions.

COMMUNITY & LEADERSHIP

Service Committee   September 2023 – May 2024
IRUTD   *Richardson, TX*
- Helped plan and execute diverse service projects, including refugee aid, homelessness relief, and local community service initiatives.
- Collaborated with a team to organize events and volunteer opportunities, contributing to impactful social service efforts in the local and global community.