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 2026*
- GPA: 4.0
- Hobson Wildenthal Honors
- AES Scholar
- Relevant coursework: Data Structures and Algorithms, Software Engineering, Systems Programming in UNIX, CS II, Discrete Mathematics, Probability and Statistics in CS, 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.

PlayBox | *Next.js, TypeScript, Google Cloud Storage, Cloud Pub/Sub*　　　　　September 2024
- Designed and implemented a video-sharing platform leveraging **Google Cloud Storage** for scalable storage and handling large video uploads, ensuring efficient retrieval and management of media files.
- Integrated **Cloud Pub/Sub** to manage asynchronous video processing tasks, allowing for the smooth handling of upload events and automated transcoding with ffmpeg into multiple formats (e.g., 360p, 720p).

COMMUNITY & LEADERSHIP

Service Committee　　　　　　　　　　　　　　　　　September 2023 – May 2024
Islamic Relief at the University of Texas at Dallas　　　　　　　　　　　　*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.