

Yusuf Shaikh

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EDUCATION

University of Texas at Dallas

Bachelor of Science in Computer Science

Richardson, TX

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, MongoDB, Firebase, Docker, TensorFlow, PyTorch,

Certifications: AWS Certified Cloud Practitioner, Convolutional Neural Networks in TensorFlow (DeepLearning.AI)

EXPERIENCE

ML Intern

August 2024 – Present

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 BeautifulSoup, OpenAI embeddings, Langchain, and ChromaDB to create an efficient architecture, reducing data processing time by **40%**.

Fullstack Developer (Lead)

August 2024 – Present

The Warren Center

Richardson, TX

- Developed a conceptual design and working prototype for 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

PlayBox | *Next.js, TypeScript, Google Cloud Storage, Cloud Pub/Sub*

August 2024 – Present

- 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).
- Managed video metadata with **Firestore**, enabling quick access to video information and supporting seamless integration with the web client.
- Built a responsive web client using **Next.js**, allowing users to upload, view, and manage videos, while supporting both authenticated and guest users.

ML Trading Bot | *Python, PyTorch*

September 2024 – October 2024

- Developed a trading bot utilizing sentiment analysis on financial news, leveraging the FinBERT model with **PyTorch** for real-time market predictions and decision-making.
- Implemented a trading strategy using Alpaca's API to automate stock trades based on sentiment signals, outperforming the S&P 500 by **12.5%** over the course of 2024

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.