Yusuf Shaikh

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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

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

Software Developer — 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 database schema to efficiently manage over **200 devices**, streamlining the checkout process and **cutting manual tracking time by 40%**.

PROJECTS

Portfolio Website | *React, Node.js, Express, MongoDB, JWT Authentication* — July 2024

- Designed, implemented, and deployed a full-stack application, integrating various frameworks into a cohesive product, resulting in **50% faster load times** and **increased site traffic** by 25%.
- Implemented text, image, and PDF uploads using MongoDB and GridFS, and integrated a secure login feature using JWT Authentication, achieving **zero security incidents** since launch.

Chess Engine | *Python* — June 2024

- Developed a chess engine with PvP and computer modes, utilizing Negamax AI with Alpha-Beta pruning, resulting in a **50% reduction in move calculation time**.
- Enhanced the AI to compete at various difficulty levels, leading to **increased user engagement** with a **25% rise in completed games**.

COMMUNITY & LEADERSHIP

Eagle Scout Service Project — December 2022 – March 2023
Boy Scouts of America — *Plano, TX*

- Led a 4-month, 120-hour service project for a local library, coordinating a team of 15 volunteers to design and build large wooden toy sets from scratch
- Obtained approvals from both BSA and library administration, ensuring project success and community impact.

TECHNICAL SKILLS & CERTIFICATIONS

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