

Emraan Yusuf

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EDUCATION

The University of Texas at Dallas, Richardson, TX
Bachelor of Science, Computer Science

Expected May 2027
GPA: 3.5

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, C, C++, HTML5, CSS, SQL, MIPS, Assembly, LaTeX

Frameworks & Libraries: React, Next.js, Spring Boot, Flask, Pandas, Pytorch, NumPy, Tailwind CSS, Recharts, shadcn/ui

Developer Tools & Platforms: Git, GitHub, Node.js, MySQL, MongoDB, MongoDB Atlas, Linux, Vercel, Railway, JSON

PROFESSIONAL EXPERIENCE

Natural Language Processing Lab – The University of Texas at Dallas, Richardson, TX
Machine Learning Research Assistant

January 2026 – Present

- Developed and curated a research-grade multimodal dataset of political memes to evaluate AI models on argumentation and fallacy detection.
- Analyzed and refined model evaluation pipelines by analyzing annotation patterns and refining dataset structure for comparative model analysis.

Spectra – ACM Research, Richardson, TX
Researcher

January 2026 – Present

- Investigated typographic and visual prompt injection attacks on LVLMS, identifying harmful model manipulation.
- Evaluated attack success across LLaVA, Qwen-VL, GPT-4o, and Claude using controlled visual parameter sweeps.
- Benchmarked attack effectiveness using quantitative metrics including Attack Success Rate and CLIPScore.
- Tested thousands of generated images across multiple visual parameters to measure attack reliability.

Securitas Security Services, Dallas, TX
Security Specialist

February 2025 – Present

- Monitored and analyzed real-time security system data using access control and surveillance software, documenting incidents and collaborated with IT teams to diagnose and resolve system and hardware issues

PERSONAL PROJECTS

DC Daddy, HackUTD 2025

November 2025 – November 2025

- Engineered a full-stack data-center operations platform unifying routing, inventory, and work-order automation.
- Designed a multi-constraint routing engine using Dijkstra's Algorithm to reduce technician fatigue and travel.
- Implemented embedding-based ticket bundling and Slack/Gmail automation to structure unorganized requests.

QuranScope, Personal

July 2025 – August 2025

- Developed a full-stack AI-assisted Quran exploration platform enabling contextual study for English speakers.
- Engineered a FastAPI backend delivering multi-style verse explanations and Surah summaries on demand.
- Automated offline classification of 6,000+ verses by theme to improve searchability and navigation.
- Negotiated and secured licensing agreements with two local mosques, scaling adoption to 240+ students.

Hypertrophy Tracker, Personal

June 2025 – July 2025

- Launched a MERN-stack fitness platform with 40+ recurring users to track workouts and strength progression.
- Developed RESTful APIs with Express and MongoDB for workout logging, templates, and performance metrics tracking.
- Designed React dashboards with filters and charts to visualize strength progression across time ranges.

CAMPUS INVOLVEMENT

HackUTD 2025, 3rd Place Winner

November 2025

Colorstack, Member

January 2025 – Present

Artificial Intelligence Society, Member

January 2024 – Present

Association for Computing Machinery, Member

August 2023 – Present