

Emraan Yusuf

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EDUCATION

The University of Texas at Dallas

Dallas, TX

Bachelor of Science in Computer Science

May 2027

Relevant Coursework: Data Structures and Algorithms, Advanced Algorithm Design and Analysis, Systems Programming, Computer Architecture, Software Engineering

GPA: 3.5

TECHNICAL SKILLS

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

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

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

PROJECTS

DC Daddy | *Next.js, TypeScript, MongoDB, Tailwind, Gemini API*

Nov 2025 – Present

- Developed a full-stack data center operations platform integrating AI-driven routing, inventory forecasting, and automated work order management
- Implemented smart ticket bundling using text-similarity embeddings to group related work orders and minimize redundant technician travel
- Designed a multi-constraint routing engine built on Dijkstra's Algorithm considering distance, elevation, hot-aisle exposure, and technician health profiles to reduce fatigue
- Built predictive inventory analytics that forecast depletion timelines from historical usage patterns and real-time stock levels
- Integrated Slack and Gmail APIs for multi-channel automation, converting unstructured messages directly into structured work orders

QuranScope | *Python, Next.js, TypeScript, FastAPI*

July 2025 – Present

- Developed a full-stack AI-assisted Quran exploration platform with interactive and contextualized study tools for English speakers to learn the Arabic text's meanings
- Engineered a FastAPI backend integrating OpenAI API to provide user-triggered verse explanations and Surah summaries in multiple styles (scholarly, simple, youth-friendly)
- Designed Python scripts to automate offline extraction and categorization of 6,000+ verses by theme, improving searchability and discoverability
- Built an intuitive frontend that organizes complex Qur'anic themes into clear, interactive views, enabling users to explore verses through search, thematic filters, and responsive layouts
- Secured licensing agreements with two local mosques, expanding adoption to 240+ students for further educational impact

Hypertrophy Tracker | *TypeScript, React, Express, MongoDB, Tailwind*

June 2025 – Present

- Launched a MERN stack fitness platform with 40+ recurring users to track workouts, progress, and performance metrics
- Engineered RESTful APIs with Express + MongoDB to support workout logging, template creation, and performance metrics
- Integrated third-party exercise API to dynamically populate exercise lists, improving data consistency and user experience
- Designed React-based analytics dashboards with filters and charts to visualize strength progression across time ranges and muscle groups

PROFESSIONAL EXPERIENCE

Security Officer | *Securitas Security Services, Dallas, TX*

Feb 2025 – Present

- Utilized access control software and surveillance systems to monitor secure facilities and manage real-time alerts
- Collaborated with IT and security teams to log, report, and troubleshoot badge reader and alarm issues

Private CS and Math Tutor | *Remote / DFW*

Dec 2022 – Present

- Tutored high school and middle school students in Python, Java, algebra, geometry, and problem-solving, resulting in a 10-50% improvements in grades in related classes

INVOLVEMENT

HackUTD 2025 – 3rd Place, NorthMark Cloud and Computing Track | *HackUTD 2025*

Nov 2025

- Recognized among Top 3 teams at HackUTD in the NorthMark Compute and Cloud track - a Hackathon with 1200+ participants and the largest 24-hour Hackathon in North America - for DC Daddy project.

Student Organizations

- **Member:** Algorithmic Coding Club (ACM), National Society of Black Engineers, ColorStack, Artificial Intelligence Society, Muslim Student Association, Students of East Africa