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, MIPS, Assembly, LaTex
Frameworks & Libraries: React, Next.js, Spring Boot, Flask, Tailwind CSS, Recharts, shadcn/ui, Mongoose
Developer Tools & Platforms: Git, GitHub, Node.js, MongoDB, MongoDB Atlas, Linux, Vercel, Railway, Heroku, JSON

Projects

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)
- Built Python scripts to automate offline extraction and categorization of 6,000+ verses by theme, improving searchability and discoverability
- Applied a static-first design by pre-computing AI outputs, reducing API costs while optimizing performance
- 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 trends
- 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

Brazilian Jiu-Jitsu Simulator | *Java, Spring Boot, OOP, JUnit* Aug 2025 – Present
- Engineered a Java-based simulator modeling Brazilian Jiu-Jitsu grappling sequences with a directed graph of positions and transitions
- Developed JSON-driven domain modeling to add new moves and positions without modifying core code
- Implemented a probabilistic engine blending resistance curves, skill-weight multipliers, and exponential fatigue decay to model realistic grappling outcomes
- Applied object-oriented design principles with separation of concerns and robust unit testing for schema validation and topology checks
- Collaborated with BJJ practitioners and gyms to refine move logic through feedback-driven iterations, applying Agile development practices

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

Leadership and Professional Development

Mentee/Member January 2025 – Present
Algorithmic Coding Club (ACM)
- Participated in weekly mentorship sessions on computer science topics, career development, and effective study strategies
- Strengthened problem-solving skills through coding challenges, mock interviews, and collaborative peer discussions

Additional Organizations: ColorStack, National Society of Black Engineers, Artificial Intelligence Society, Muslim Student Association, Students of East Africa