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, Probability and Statistics, Linear Algebra
GPA: 3.5

PROJECTS

Hypertrophy Tracker | *TypeScript, React, Express, MongoDB, Tailwind, Render* — June 2025 – Present
- Launched and deployed a full-stack fitness platform with 40+ recurring users, enabling personalized workout logging, performance insights, and progress visualization
- Built scalable REST APIs with Express + MongoDB Atlas, deployed on Render and Vercel for zero-downtime cloud hosting
- Integrated API Ninjas database with custom input handling for dynamic exercise selection and user-defined entries
- Implemented interactive analytics dashboards with React line charts and filters across time ranges and muscle groups to improve data digestibility

QuranScope | *Python, Next.js, TypeScript, FastAPI* — July 2025 – Present
- Built an AI-powered Quranic reference and learning platform with real users, enabling keyword lookup, semantic theme search, and instant verse explanations
- Integrated OpenAI API with a FastAPI backend to provide streamed, customizable AI verse explanations (bullet points, scholarly, TL;DR, youth-friendly)
- Automated semantic theme extraction for 6,000+ verses with Python scripts, creating a searchable primary–subtheme index to boost comprehension and reference speed
- Optimized text-heavy UI (Next.js + Tailwind) for large-scale verse navigation with toggle-able search modes (theme vs keyword, partial word vs whole word)
- Implemented permalinks and cross-device sharing; currently developing real-time collaborative sessions with WebSockets to synchronize study content across users

BJJ Simulator (In Progress) | *Java, Spring Boot, Docker* — Aug 2025 – Present
- Developing a Brazilian Jiu-Jitsu simulation platform for gyms, instructors, and competitors to explore move sequences, study grappling progressions, and prepare for competitions
- Modeling grappling positions, moves, and transitions as a directed graph in Java, enforcing legal IBJJF progressions and scoring rules
- Delivering an initial console-based application with a Dockerized backend for core simulation, with planned JavaFX integration to provide interactive visualization of grappling states

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

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C, C++, HTML5, CSS, MIPS, Assembly, LaTex
Frameworks & Libraries: React, Next.js, Spring Boot, Flask, Tailwind CSS, TensorFlow, Recharts, shadcn/ui, Mongoose
Developer Tools & Platforms: Git, GitHub, Node.js, MongoDB, MongoDB Atlas, Linux, Eclipse, Vercel, Render, Railway, Heroku, Replit, JSON, OpenAI API, Hugging Face

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: NSBE, Artificial Intelligence Society, Muslim Student Association, Students of East Africa