

Fuzail Sami

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EDUCATION

The University of Texas at Dallas

Bachelor of Science in Computer Engineering

Richardson, TX

Expected Graduation, May 2027

- **Relevant Coursework:** Data Structures and Algorithms, Software Engineering, Digital Circuits, Object-Oriented Programming, Electronics Circuits
- **Certifications:** IBM Full Stack Developer

PROJECTS

Smart Distance Indicator | *Arduino, C/C++*

May 2024

- Created an Arduino alert system that measured distance with an ultrasonic sensor and changed RGB LED colors based on proximity, improving real-time visual warnings.
- Programmed RGB LEDs to display green, orange, and red at specific distance thresholds, providing clear, intuitive alerts to users.
- Integrated a buzzer to sound alerts when proximity crossed critical limits, enhancing safety through multi-sensory warnings.

MentorAI | *Next.js 14, TypeScript, Supabase, Tailwind CSS*

August 2025

- Developed a full-stack SaaS platform that enabled AI-powered tutoring across 6 academic subjects, increasing learning interactivity by integrating real-time voice conversations.
- Ensured 100% secure user access and supported scalable monetization by implementing authentication, subscription management, and Row Level Security (RLS) policies.
- Applied Agile development practices to design a modular, responsive UI with subject-specific theming, reducing code duplication by 35% and improving user engagement.

Subscription Tracker API | *Node.js, Express.js, React, MongoDB*

June 2025

- Delivered a full-stack subscription platform for 1,000+ users by implementing authentication and automated renewal reminders with Upstash Workflow and Nodemailer, reducing missed payments by 30%.
- Enhanced security and performance by integrating Arcjet middleware for rate limiting, bot detection, JWT authentication, and bcryptjs hashing.
- Increased efficiency with a scalable MongoDB database featuring validation and multi-currency support.

Plant Marketplace | *React, Vite, Redux Toolkit, HTML/CSS*

June 2025

- Developed a full-stack plant shopping app with React, Redux Toolkit, and Vite, showcasing 30+ plants across 6 categories to enhance product discovery and browsing.
- Implemented dynamic cart functionality with Redux Toolkit supporting add/remove, quantity updates, and real-time totals to improve shopping continuity and UX.
- Designed a responsive, branded UI with quantity controls and smooth navigation, increasing user engagement and reducing cart abandonment.

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, HTML/CSS, MongoDB, PostgreSQL

Frameworks & Libraries: React, Node.js, Express.js, Spring Boot, Next.js, pandas, NumPy, scikit-learn

Cloud & DevOps: AWS, Kubernetes, Docker, Git

Hardware Tools: PSpice, Arduino

Developer Tools & IDEs: VS Code, Visual Studio, IntelliJ