

Kriti Goomer

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EDUCATION

The University of Texas at Dallas

Bachelor of Science in Computer Science

Richardson, TX

August 2024 - May 2027

- **GPA:** 4.0
- **Honors:** Dean's List (Fall 2024, Spring 2025, Fall 2025), Academic Excellence Scholarship
- **Relevant Coursework:** Probability & Statistics for CS, Linear Algebra, Advanced Algorithm Design & Analysis, Software Engineering, Systems Programming in UNIX (C), Computer Architecture (MIPS Assembly), Data Structures & Algorithms (Java), Discrete Mathematics

PROJECTS

ComPal – Multi-Agent Decision System | *Python, FastAPI, LangGraph, Neo4j, PostgreSQL* April 2026

- Integrated a **multi-agent AI system** (Supervisor, Financial, and Property agents) to generate adaptive business recommendations from financial and real estate data and scenario simulations (financial runway, burn rate).
- Developed **Next.js** API proxy layer (app/api/*) to connect frontend with **Python FastAPI** backend via structured endpoints, handling routing, environment configuration, and service connectivity debugging.
- Integrated **LLM APIs** and voice output pipeline for conversational insights.
- Delivered production-grade full-stack integration of AI agents with persistent graph and relational databases.

BabySteps – Real-Time Contraction Monitoring System | *React Native, Node.js, Arduino* March 2026

- Built an end-to-end real-time **IoT** system integrating **Arduino** sensor data with a **React Native** mobile app via **Node.js** backend.
- Developed a **WebSocket** pipeline and a serial-to-WebSocket bridge for contraction event streaming (start/end, duration) with thread-safe concurrent handling.
- Designed session tracking and contraction classification logic with real-time analytics (intervals, durations, labor likelihood).
- Integrated device motion detection (**Expo**) and calibration flow to improve signal reliability and reduce noise.

EXPERIENCE

Software Developer

September 2025 - Present

Artificial Intelligence Society (AIS), UT Dallas

- Led UI/UX design (**Figma**) for the [HackAI](#) (927 applicants, 364 participants) and *AI Mentorship* pages (500+ users) with dynamic frontend using **Next.js**, **React**, **TypeScript** with **Firebase Firestore** for real-time data and role-based access.
- Engineered **Node.js** scripts to migrate and normalize 927 application records from **Coda** to **Firebase** with data integrity.
- Implemented authentication, access control, and automated secure access code generation.
- Collaborated with a 6-developer team using Git workflows to scale systems serving 400+ active members.

Front-End Developer

September 2024 - May 2025

Comet Connect / Society of Women Engineers (SWE), UT Dallas

- Designed and implemented mobile UI/UX for a campus networking application using **React Native**.
- Built **Firebase authentication** workflows including secure user login and protected data routing.
- Developed real-time messaging and user filtering features to improve user engagement and retention.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, TypeScript/JavaScript

AI/ML & Agents: LangGraph, LLM APIs, Multi-Agent Systems, Pandas, NumPy, Scikit-learn

Frontend: React, React Native, Next.js, Tailwind, Figma

Backend & Databases: FastAPI, Node.js, Express, Firebase (Firestore, Auth), PostgreSQL, Neo4j

Systems & DevOps: WebSockets, TCP/IP Sockets, POSIX Threads, Multithreading, Linux, Git/GitHub, Arduino (Embedded Systems), Real-Time Data Streaming, GCP