

Sameeraa Kandalgaonkar

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EDUCATION

University of Texas at Dallas

B.S. Computer Science, Minor in Business Administration

Richardson, TX

Expected May 2027

TECHNICAL SKILLS

Languages: Python, Java, C++, C, JavaScript, TypeScript, SQL, R

AI / ML: Model fine-tuning (DistilBERT), RAG pipelines, ChromaDB, embeddings, LLM benchmarking & evaluation, prompt engineering, Scikit-learn, XGBoost, Groq API

Full-Stack: React, Next.js, Node.js, FastAPI, Flask, PostgreSQL, MongoDB, Supabase, RESTful APIs

Tools: Git, GitHub, Claude Code, Cursor, Vercel, Figma

EXPERIENCE

Software Engineering Intern — Predica Inc. (founding engineering team)

Sept. 2024 – Dec. 2024

- Part of the founding engineering team building a React application from the ground up; **owned the Vite-based build pipeline end-to-end, cutting build times 40%** in a fast-paced production environment.
- Built a library of 15+ reusable React/TypeScript UI components and integrated the OpenAI API into an AI-assisted resume customization workflow, shipping across the full stack.

Development Coordinator — Women in Engineering Hackathon (WeHack)

Jun. 2025 – Present

- Built and deployed a React + TypeScript event platform **supporting 600+ concurrent users**, designing for reliability and optimized asset delivery under real-time load.

Web Content Assistant — Naveen Jindal School of Management (JSOM)

Nov. 2025 – Present

- Increased organic traffic 15% and drove 70% traffic growth by restructuring site metadata, internal linking, and accessibility (WCAG) compliance; analyzed engagement metrics to guide data-driven improvements.

Officer, Community (Archives) Division — ACM UTD

Jun. 2025 – Present

- Designed a structured tagging and indexing system for 500+ digital assets, reducing content review cycles 20% across a 10-person editorial team.

PROJECTS

[CodeEscape — Real-Time Multiplayer AI Platform](#) | Next.js 16, TypeScript, Supabase, Groq API, Zod, Upstash

Jun. 2026

- Built a production-grade Next.js app with **live multiplayer game-state sync** (Supabase/PostgreSQL) across 12+ CS topics and 240+ questions, engineering real-time lobbies that stay consistent under concurrent traffic.
- Engineered **4 distinct AI teammate personas** via LLM inference with custom prompt libraries and a token-by-token streaming chat UI; built a server-side adaptive difficulty engine (Item Response Theory) with rate limiting.
- Ran a post-launch security audit that found and fixed 8 vulnerabilities, including moving all grading server-side and closing a prompt-injection vector against the in-game AI agents.

TakeMeter — LLM Benchmarking & Fine-Tuning | Python, DistilBERT, Transformers

Jun. 2026

- Fine-tuned DistilBERT to classify discourse quality, constructing a synthetic labeled dataset and achieving **96.78% accuracy**; benchmarked against a zero-shot LLM baseline to quantify when fine-tuning is worth the investment over prompting.

The Unofficial Guide — Retrieval-Augmented Generation | Python, ChromaDB, Llama-3.3-70B

Nov. 2025

- Built a RAG pipeline over UT Dallas course reviews using ChromaDB vector retrieval; tuned chunking and top-k parameters against held-out queries, trading off latency against answer relevance to reduce hallucination.

NexusMath — Multi-threaded Networking Suite | Java, Socket Programming, DSA

Mar. 2026

- Built a multi-threaded Java server handling concurrent client requests through a custom socket protocol; implemented a thread-safe task queue minimizing blocking operations and latency.

LEADERSHIP & RESEARCH

Undergraduate Researcher — UTDesign: Quantitative Research in Engineering Education

Fall 2024 – Spring 2025

- Analyzed survey and concept-map data from 570+ students to study undergraduate engineering identity formation, synthesizing findings into curriculum recommendations.

Director, Ladies in Tech Mentoring Program — Society of Women Engineers

2025 – Present

- Promoted from Treasurer to Community Chair to Director; lead a mentorship program connecting women across STEM disciplines.

HONORS & AWARDS

- Best Domain Name, GoDaddy Registry [MLH]: WeHack 2024, MLH, UTD — Apr. 2024 · AI4All Ignite Fellow '26