

SAMEEP SHAH

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EDUCATION

Bachelor of Science in Computer Science

Texas Christian University | GPA: 3.95

Expected May 2026

Fort Worth, TX

- Double Major in Economics with Minor in Mathematics
- **Relevant coursework:** Data Structures, Algorithms, Programming Languages, Mathematical Statistics, Computer Architecture, Discrete Math, Calculus, Linear Algebra, Game Theory, GPU Computing
- **Honors and Societies:** Clark Society Endowed Scholar, Upsilon Pi Epsilon, John V. Roach Honors College

TECHNICAL SKILLS

Languages: Python, Golang, C/C++ , Java, Rust, SQL, JavaScript, TypeScript, HTML/CSS

Frameworks: Spring Boot, Semantic Kernel, LangChain, React, Vue, Angular, TailwindCSS, Node.js

Tools: AWS, Google Cloud, Firebase, Supabase, Vercel, Docker, Git, PostgreSQL, Linux

EXPERIENCE

Software Engineering Intern

CBRE

Jun 2025 – Aug 2025

Richardson, TX

- Engineered scalable microfrontend architecture using Angular, Python, and Golang to support AI capabilities for enterprise platform serving 20,000+ monthly users, deployed via AWS and Jenkins CI/CD pipelines.
- Architected a Semantic Kernel-powered agent with autonomous tool-calling capabilities to programmatically generate data visualizations, streamlining business intelligence workflows.
- Implemented bidirectional real-time communication system with speech-to-text and text-to-speech functionality using WebSockets and Google Cloud API for seamless voice-enabled user interactions.

AI/ML Research Assistant

HealthLit Research Lab

May 2024 – May 2025

[Published Research](#) | Fort Worth, TX

- Developed Retrieval-Augmented Generation application leveraging large language models to automate comprehensive audit report generation for health literacy assessment in clinical environments.
- Architected responsive web interfaces with React and TailwindCSS, deployed through Firebase for scalable cloud distribution.
- Integrated Qdrant vector database with LangChain framework to implement semantic search capabilities.
- Co-authored peer-reviewed research publications, presented findings at IEEE/ACM CHASE 2025, and received Best Paper Award at IMNS 2025 conference.

Undergraduate Teaching Assistant

TCU Computer Science Department

Aug 2023 – Dec 2023

Fort Worth, TX

- Guided 60+ students through Java programming concepts, data structures, and algorithmic problem-solving in weekly office hours, contributing to 20% improvement in assignment performance.

Dining Services Chair

Sodexo

Aug 2025 – Present

Fort Worth, TX

- Direct six-member SGA committee to liaise between 13,000+ students and administration, utilizing systematic feedback collection to drive service improvements across campus dining facilities.

Resident Assistant

TCU Housing and Residence Life

Aug 2024 – Present

Fort Worth, TX

- Coordinate with team of resident assistants to facilitate 60+ community programs and manage emergency response protocols, developing leadership and crisis intervention competencies.

PROJECTS

Linear Accelerator QA Software | React, PostgreSQL, Python, .NET

[GitHub](#)

- Directed 6-member team to build open-source clinical QA platform, automating analysis for 100+ datasets and reducing report generation time by 60%.

Puckle | React, Supabase, PostgreSQL, TailwindCSS

[Live Demo](#) | [GitHub](#)

- Engineered daily NHL puzzle game by reverse-engineering undocumented APIs; optimized Supabase queries to serve real-time stats to 35+ monthly users with <50ms latency.

ExRx AI | Python, PyTorch, LangChain, React

[GitHub](#)

- Architecting cardiac rehabilitation agent with UT Southwestern; uses RAG to generate personalized exercise prescriptions, cutting clinician planning time from 20 mins to <2 minutes.