

# Sameep Shah

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## EDUCATION

### Texas Christian University

Bachelor of Science in Computer Science, Minor in Mathematics

Bachelor of Science in Economics

**Honors and Societies:** Clark Society Endowed Scholar, Upsilon Pi Epsilon, John V. Roach Honors College

**GPA: 3.95/4.00**

Aug 2022 – May 2026

## TECHNICAL SKILLS

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

**Frameworks:** Spring Boot, LangChain, ReactJS, VueJS, AngularJS, TailwindCSS, MySQL, PostgreSQL

**Tools:** AWS, Google Cloud, Linux, Git, Docker, VS Code, IntelliJ, Eclipse, Android Studio

## EXPERIENCE

### Software Engineering Intern

Jun 2025 – Aug 2025

CBRE

Richardson, TX

- Developed scalable solutions using AngularJS, Python, and Golang, to support an AI team serving over 20,000 monthly users across the company, deploying on AWS using Jenkins.
- Engineered a Semantic Kernel powered agent, improving API performance and creating a chart-generation tool to enhance data visualization capabilities.
- Developed real-time speech-to-text input and text-to-speech output functionalities, leveraging WebSockets, Google Cloud API for efficient and accurate communication.

### AI/ML Research Assistant

May 2024 – May 2025

HealthLit Research Lab

[Link to paper](#) | Fort Worth, TX

- Built a Retrieval-Augmented Generation (RAG) application using large language models (LLMs) to generate detailed audit reports on health literacy practices.
- Engineered responsive user interfaces using React and TailwindCSS, which were deployed using Firebase.
- Implemented a vector database with Qdrant and LangChain to retrieve relevant information, improving the accuracy of reports by 18%.
- Co-authored two peer-reviewed research papers, presented research at IEEE/ACM CHASE 2025 conference and received Best Paper Award at IMNS 2025.

### Undergraduate Teaching Assistant

Aug 2023 – Dec 2023

TCU Computer Science Department

Fort Worth, TX

- Mentored over 60 students in Java programming, data structures, and algorithmic problem-solving by conducting weekly office hours, which led to a 20% improvement in student performance on coding assignments.

### Dining Services Chair

Aug 2025 – Present

Sodexo

Fort Worth, TX

- Lead a 6-member committee within Student Government, acting as the primary liaison between 13,000 students, university administration, and dining partners to improve on-campus dining services.
- Spearhead initiatives by collecting student feedback, presenting proposals to administration, and serving as the main point of contact for dining-related issues.

### Resident Assistant

Aug 2024 – Present

TCU Housing and Residence Life

Fort Worth, TX

- Collaborate with a team of 10 RAs to organize over 100 community events and respond to over 35 emergency situations, developing strong leadership, communication, and crisis management skills.

## PROJECTS

### Linear Accelerator QA Software

[GitHub Link](#)

- Led a 6-person team to make an open-source full-stack medical imaging QA platform; drove the React and PostgreSQL integration, ingesting 100+ datasets for automated QA.
- Architected and shipped end-to-end features like ETL pipeline using Python with a .NET backend; improving QA throughput and reducing redundancies for users.

### ExRx AI

[GitHub Link](#)

- Working with UT Southwestern researchers, developing an AI powered exercise prescription generator for physical therapists to create personalized exercise plans for patients with heart conditions. (Currently in prototype phase)