

# 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, MySQL, TailwindCSS

**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

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 for the RAG-based application, which were deployed using Firebase.
- Implemented a vector database with Qdrant and LangChain to retrieve relevant information for RAG, improving the accuracy of reports by 18%.

### 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

### Chip-8 Emulator

[GitHub Link](#)

- Leveraged the std and sdl2 libraries in Rust to emulate Chip-8 programming language using 35 operation codes to run and render developed games allowing user input and real-time rendering using OpenGL.

### DNS Resolver

[GitHub Link](#)

- Built a DNS resolver in C++, implementing DNS protocol to construct and parse queries and responses
- Designed domain encoding, query construction, and response parsing, allowing input from user while behaving like standard Linux functions dig, nslookup using standard libraries for networking and file I/O