

Krish Y. Shah

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EDUCATION

University of South Florida
Bachelor of Science in Computer Science
GPA: 3.79

Tampa, FL
Expected December 2026

EXPERIENCE

Software Engineering Intern

Dec 2024 – Jan 2025

Typical PT

Cape Coral, FL

- Collaborated with the lead web developer to create an exam preparation platform for Physical Therapy students
- Automated the transfer of test bank questions into a tabular format using the **Python-Excel** library, reducing development time by **8 hours**
- Tested **API endpoints** using the **Jest library**, reducing errors by **20%**

Marketing Intern

Jan 2025 – May 2025

Society of Asian Scientists and Engineers (SASE)

Tampa, FL

- Integrated a **Google Apps Script** into the team's Google Calendar, reducing task scheduling time by **50%**
- Coordinated with the USF Engineering Council to promote events and increase student engagement
- Designed event marketing posts using **Canva** to support social media outreach

PROJECTS

Spatial Distance Histogram | *CUDA, C*

- Accelerated a Spatial Distance Histogram computation by porting the program from **C** to **CUDA**, achieving a **99%** reduction in execution time
- Optimized memory layout to ensure coalesced global memory access
- Enhanced parallel efficiency by applying **data privatization and tiling strategies**, reducing atomic operations and boosting overall performance

Etch-A-Sketch | *HTML, CSS, JavaScript*

- Developed an interactive web application using **JavaScript** and **DOM manipulation**, allowing users to create pixel art with mouse interactions
- Implemented five custom brush types to enable more complex drawings
- Added keyboard shortcuts to streamline the drawing process
- Built a responsive canvas with adjustable dimensions to enhance usability across devices

Weather App | *Tailwind CSS, TypeScript, React, Node.js, Express*

- Built a full-stack weather application using **React**, **TypeScript**, **Node.js**, and **Express** to fetch and display real-time weather data from the **OpenWeather API**, styled with **Tailwind CSS**
- Designed a responsive grid-based UI that adapts to various screen sizes for a smooth user experience
- Handled edge cases for duplicate city names and invalid addresses by validating user input with geocoding, improving app reliability

Calculator | *HTML, CSS, JavaScript*

- Designed an online calculator application to evaluate arithmetic expressions created through button input
- Added delete and reset functions using string manipulation to allow the user to modify their inputs
- Incorporated six different operations and decimal arithmetic to allow for a wider range of calculations

TECHNICAL SKILLS

Languages: C/C++, CUDA, RISC-V, Python, HTML, CSS, JavaScript

Technical Skills: React, Node.js, Express, RESTful APIs, Git, Microsoft Word, Excel, Canva

Courses: Data Structures, Analysis of Algorithms, Computer Architecture, Programming in Massively Parallel Systems