

Joshua Hsieh

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EDUCATION

San Jose State University

San Jose, CA

B.S in Software Engineering, Minor in Business

Aug. 2023 – May 2026

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Assembly Language, Computer Architecture

EXPERIENCE

Delta Dental

June. 2025 - Aug. 2025

Salesforce Developer Intern

Oakland, CA

- Incoming summer 2025

SJSU College of Engineering

Jan. 2025 - Present

Software Engineering Intern

San Jose, CA

- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

Theta Tau Professional Engineering Fraternity

Dec. 2024 - Feb. 2025

Rush Chair

San Jose, CA

- Spearheaded outreach and recruitment strategy for 100+ prospective members during rush week, driving a 25% increase in chapter engagement and candidate turnout. .
- Partnered with executive board to plan and execute 5+ professional development, networking, and alumni events, enhancing visibility and member growth.

PROJECTS

BuddyUp | *FastAPI, PostgreSQL, Firebase Auth, React, Electron.js*

- Building a social accountability platform for college students to track goals, reflect on habits, and support one another through buddy systems.
- Engineered a modular FastAPI backend with PostgreSQL and Firebase Auth to support secure task management and real-time buddy linking.
- Implemented structured event logging to enable future analytics features like behavioral insights and ML-based progress tracking.
- Packaged the app into a cross-platform desktop client using Electron.js, designed for seamless deployment on Windows, macOS, and Linux.

ToGoBot | *FastAPI, React, Firebase, Google APIs, Uvicorn*

- Developed an autonomous food delivery robot with a 17-member team, integrating real-time location tracking and obstacle avoidance logic.
- Programmed ultrasonic sensor responses to detect obstacles and trigger start-stop motion control for safe autonomous navigation.
- Engineered a FastAPI + Uvicorn backend to stream live coordinate data via HTTP for dynamic robot location updates.
- Built a React-based web dashboard with Google Service APIs and Firebase Auth, enabling secure access and robot status monitoring.

Spartan Yap | *Flask, ReactJS, Docker*

- Built a secure university-facing social platform with Firebase Authentication and role-based access controls.
- Implemented protected route logic and session management, enabling 100+ students to log in and access tailored features safely.
- Designed scalable backend architecture to support consistent performance and reduce latency across dynamic user sessions.

TECHNICAL SKILLS

Languages/Frameworks: JavaScript, Python, C++, SQL (Postgres), Java, HTML/CSS, R

Developer Tools: Git/Github, Docker,