

JOSHUA HSIEH

669-251-7685 | hsiehjoshua424@gmail.com | linkedin.com/in/joshua-hsieh | joshhsieh.netlify.app

EDUCATION

San Jose State University

San Jose, CA

B.S. Software Engineering, Minor Business

Expected Graduation: May 2027

- **Relevant Coursework:** Data Structures & Algorithms, Computer Architecture, Statistical Modeling, Linear Algebra, Machine Learning, Experimental Design

EXPERIENCE

Delta Dental

Jun 2025 – Feb 2026

Software Engineering Intern

Oakland, CA

- Engineered and developed recursive Apex controller with Lightning Web Component tree-grid to visualize multi-level Case hierarchies, implementing intelligent SOQL batching that reduced database calls by 90% and improved query performance by 10×
- Built multi-AI email generation system (OpenAI) reducing sales rep email time by 5 minutes per lead with 40% consistency improvement through zero-knowledge prompting architecture

SJSU College of Engineering

Jan 2025 – Jun 2025

Software Developer Intern

San Jose, CA

- Ingested 10K+ course records and 1K+ reviews with Bun + PostgreSQL; normalized data for high-performance SQL analytics.
- Added full-text search & ranking (tsvector); API served ranked results in <50 ms via Node/Express.

Theta Tau Engineering Fraternity

Nov 2024 – Jan 2025

Rush Chair

San Jose, CA

- Co-led six 90+ attendee events; automated roster/metrics tracking in Python, cutting budgeting variance by 12%.

PROJECTS

Financiai — Personal Finance AI

Next.js, Rust WASM, PostgreSQL, Supabase, LightGBM

- Designed CSV ingestion + normalization pipeline in Rust/WASM for real-time processing of 10K+ rows (<500 ms).
- Trained LightGBM model (95% precision) for anomaly detection; surfaced insights through a React dashboard.
- Secured backend with AES-256 row-level encryption, token-bucket rate limiting, and Dockerized deployment on AWS.

Mindfit — Faith & Fitness

React Native, Spring Boot, Supabase, AWS S3

- Built cross-platform wellness app with one-tap logging and GPT-generated “Boosts”; shipped over four agile sprints.
- Designed FAB + bottom-sheet UX to minimize user input steps; internal testing showed up to 75% faster logging flow. Optimized asset delivery using AWS S3 and lazy loading to reduce perceived media load times.

RERS — Rapid Emergency Response System

Next.js, FastAPI, PostgreSQL + PostGIS, Mapbox

- Built real-time 911 call summarizer using FastAPI, MongoDB Atlas, Hume AI, OpenAI, Twilio, and Next.js to help government teams cut response delays
- Created an AI-driven duplicate detection pipeline with NLP + geospatial matching, reducing redundant reports by 60% and improving dispatcher speed.
- Integrated Twilio call ingestion with real-time transcription summarization, cutting incident triage time by 35%

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript/TypeScript, SQL

Frameworks/Tools: React JS, Node JS, FastAPI, Spring Boot, Git/GitHub, Docker, Supabase, PostgreSQL, AWS, Linux

Interests: Basketball, Badminton, Hiking, Movies, Shopping