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 in Software Engineering, Minor in Business — *Aug. 2023 – June 2027*
- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Assembly Language, Computer Architecture, Discrete Mathematics

EXPERIENCE

Delta Dental — June. 2025 - Aug. 2025
Salesforce Developer Intern — *Oakland, CA*
- Developed an on-demand Case-Hierarchy Lightning Web Component with a recursive Apex controller, letting support reps traverse multi-level related Cases in-page and cutting navigation latency to ≈ 0.
- Proposed and scoped a GenAI-powered Salesforce email assistant using OpenAI + LWC; authored architecture plan, security review outline, and 4-week sprint roadmap.

SJSU College of Engineering Intern — Jan. 2025 - Present
"Reverse Rate my Professor" — *San Jose, CA*
- Scraped and normalized 10 K+ course sections & 1 K+ professor profiles from the SJSU catalog and RateMyProfessors with Bun-powered crawlers, auto-seeding Postgres each term for up-to-date data.
- Optimized course/professor search using Postgres tsvector + React typeahead, delivering ranked results < 50 ms with indexed search.

PROJECTS

Financiai – personal finance AI | *NextJS, Typescript, OpenAI, Supabase, Python*
- Built a full-stack web app that converts raw bank-export CSVs into personalized spend/save recommendations, processing 10k+ transactions in < 500 ms
- Engineered a streaming parser + normalization pipeline (Rust-powered WASM module) that cut data-prep latency by 80 % and enabled real-time insights.
- Trained and deployed an Isolation Forest model (96 % precision) to flag anomalous transactions, surfacing alerts with GPT-generated, plain-language explanations that improved user trust scores by 30 %
- Implemented row-level encryption in Supabase and token-bucket rate limiting on Vercel, scaling reliably to 250 req/min with 99.99 % uptime

R.E.R.S - Emergency Response System | *Next JS, FastAPI, PostgreSQL, Mapbox, HumeAI, MongoDB*
- Built an AI-powered emergency dispatch system that transcribes and triages 911 calls using NLP and emotion models.
- Integrated Hume AI + OpenAI to extract emotion and intent from call transcripts, easing dispatcher cognitive load.
- Architected backend pipeline with FastAPI + MongoDB + Twilio to deduplicate incoming calls, cutting redundancy by $\approx 30\%$.

ToGoBot - Autonomous food delivery robot | *FastAPI, React, Firebase, Google APIs, Uvicorn*
- Collaborated on a full-stack autonomous robot project, integrating real-time location tracking, dashboards, and secure controls.
- Engineered a FastAPI + Uvicorn backend to stream live coordinate data via HTTP for dynamic robot location updates.
- Built a React dashboard with Firebase Auth + Google APIs for secure access and robot status monitoring.

TECHNICAL SKILLS

Languages/Frameworks: JavaScript, Python, C++, SQL (Postgres), Java, HTML/CSS, R, Supabase, Firebase, OpenAI API, MongoDB
Developer Tools: Git/Github, Docker