Enrico R. Zamarripa

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, Java, C++, C#, PHP, HTML, CSS
Frameworks: React, Next.js, Vue.js, Node.js, Express.js, Flask, React Native, Expo, Tailwind CSS, Material UI
Cloud and DevOps: AWS (Lambda, API Gateway, Cognito, S3, ECS Fargate), Terraform, Docker, GitLab CI/CD, Serverless
Databases and Tools: MySQL, PostgreSQL, Supabase, Firebase, Git, Linux, Bash, Playwright, Odoo, REST APIs, OAuth 2.0

EXPERIENCE

AutoDCP / Act Local Monrovia, CA
Software Development Engineering Intern *Sep 2024 – Present*

- Developed 3 Odoo 19 CRM modules in Python that automate the sales pipeline: FilmFreeway lead generation with a Playwright scraper, one-click lead enrichment with Claude AI, and personalized PDF collateral from Google Drive.
- Built a multi-tenant, white-label event photobooth platform (850+ commits) with React, TypeScript, Node.js, Express, and Python Flask; deployed at Cine Gear 2026 on the Universal Studios Lot and at Film Invasion LA.
- Built a serverless dashboard (100+ commits) for creating theater presentations (React, Express on AWS Lambda, Slidev on ECS Fargate) with Cognito role-based access and AI slide generation through Amazon Bedrock, OpenAI, and Claude.
- Extended Slidev (Vue.js) with live trivia, word clouds, and QR codes over WebSockets, backed by a Flask API on AWS Lambda.
- Built a pre-show reel slideshow builder (Node.js, FFmpeg) with beat-matched transitions, loudness normalization, and AI filtering.
- Managed dev and production environments with Terraform and Serverless; built GitLab CI/CD pipelines and Docker deploys.

Headstarter AI Remote
Software Engineering Fellow *Jul 2024 – Sep 2024*

- Built 5 AI applications in 8 weeks with remote teams, including a RAG chatbot and an AI flashcard generator.

PROJECTS

ProfSpot CSUF | *Next.js, React, Pinecone, Claude API, Playwright* | profspot-csuf-psi.vercel.app Sep 2026

- Built a retrieval-augmented generation (RAG) chatbot over about 5,000 rated Cal State Fullerton professors and 120,000 reviews, with department and course filters and PDF export of saved professors.
- Used Claude to turn questions into search plans that filter and rank OpenAI embeddings in Pinecone, citing real reviews.

UmbraFlow | *TypeScript, Node.js, Chrome DevTools, FFmpeg* | github.com/ricozama121803/umbraflow Nov 2026

- Built a CLI that turns a recorded Chrome session into a demo video and page snapshots, saved inside the app's own repo.
- Added auto-zooms, a smooth cursor, live masking of personal data, and typo and pause cuts, rendered at 60 fps with FFmpeg.

Pnch | *Python, Textual* | github.com/ricozama121803/pnch Nov 2026

- Built a terminal time clock that logs work, shows day and week timelines, and exports an approved week as a PDF invoice.
- Added undo and redo, overlap resolution between time blocks, crash-safe autosave, a shell CLI, and a man page.

Snap Shelf | *JavaScript, Chrome Extension APIs, IndexedDB* | github.com/ricozama121803/snap-shelf Jul 2026

- Published a Chrome Web Store extension that saves highlighted text, screenshots, and images into a searchable, tagged side panel.
- Kept memory low with a Manifest V3 service worker, on-demand content scripts, and WebP images in IndexedDB.

TitanConnect | *React Native, Expo, Supabase, TypeScript* | github.com/octagonn/titanconnect Nov 2025 – Jul 2026

- Built a CSUF campus-community app with a team of student developers: social feed, marketplace, study-buddy matching, and real-time notifications; shipped as an installable PWA through Expo EAS.
- Top contributor (27 commits): led the app redesign, added marketplace offers and a ranked feed, and set up Jest testing.

EDUCATION

California State University, Fullerton Fullerton, CA
Bachelor of Science in Electrical Engineering *Expected May 2029*

- **Relevant Coursework:** Databases and File Structures, Java, Software Engineering, Statics

Citrus College Glendora, CA
Associate Degree for Transfer in Computer Science *Jun 2025*

- **GPA:** 3.54/4.00, Dean's List. **Coursework:** Data Structures and Algorithms, OOP, Computer Architecture, Discrete Structures

LEADERSHIP

InnovateX Robotics Club Glendora, CA
Team Member *Aug 2023 – Present*

- Built and calibrated six mobile-controlled hexapod robots; assisted with a bilingual STEM showcase for local students.