

ERNESTO REYES

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EDUCATION

University of California, Merced

Merced, CA

Bachelor of Science in Computer Science & Engineering

EXPERIENCE

Software Developer Intern (Full-Stack & UI/UX)

Jun. 2024 – Sep. 2025

Conectado Inc.

- Re-architected the codebase leveraging Next.js, leading to ~35% faster page load times and simplified component management.
- Redesigned the frontend with Material-UI to deliver a responsive user interface, establishing a new and consistent company branding standard.
- Engineered a seamless migration of 50,000+ Firestore documents (NoSQL) to Data Connect (SQL), improving relational data handling, eliminating data duplication, and reducing projected operational costs by ~50%.
- Communicated with company stakeholders to translate business objectives into actionable data insights and visualizations

Student Researcher

May 2024 – Aug. 2024

University of California, Merced (Supervised by Software Engineering TA)

- Collaborated with team of 4 to develop a full-stack, AI-assisted calendar application featuring voice-activated scheduling and management, boosting event creation efficiency by ~40%.
- Implemented secure user authentication and calendar integration using Firebase Authentication alongside Microsoft and Google calendar APIs
- Researched and applied Large Language Model (LLM) techniques, utilizing OpenAI's API to enable natural language interaction with users' calendars.

Student Consultant

Feb. 2024 – Apr. 2024

Open Avenues Career Pathways

- Architected a web application through the Google Cloud Platform using Load Balancer, Cloud Armor, and Docker, ensuring scalable and resilient deployment
- Deployed scalable backend services using Cloud Functions, reducing server management overhead and ensuring reliable, on-demand event execution
- Implemented robust authentication and security measures by using Firebase Authentication with App Check and reCAPTCHA, mitigating bot traffic and unauthorized access attempts

PROJECTS

AI Opportunity Backpack (SWE Capstone) | React Native, Expo, Firebase, ChatKitty API

Jan. 2024 – May. 2024

- Led a 3-person team in developing a mobile app that consolidates fragmented career resources into a single, searchable database for students/career seekers and enables peer-to-peer networking.
- Engineered a scalable chat solution using the ChatKitty API, accelerating delivery by ~70% while lowering costs by 2-5x compared to competing APIs
- Analyzed user needs and product requirements to ensure technical feasibility, delivering the project 2 weeks ahead of schedule.

Album Poster Automator (vini-posters.netlify.app) | TypeScript, Vue, Tailwind, ExpressJS, Spotify Web API

- Designed and built a Vue web application that integrates the Spotify Web API, enabling users to search Spotify's music catalog and instantly generate compelling data visualizations
- Developed an Express backend to fetch and structure album metadata, enabling fast and reliable data retrieval
- Automated the poster creation workflow, reducing design time by ~90%

TECHNICAL SKILLS

Languages: JavaScript, Python, C/C++, HTML/CSS, SQL

Frameworks/Technologies: React, NextJS, Vue, Material-UI, Tailwind, NodeJS, ExpressJS, Flask, Firebase

Developer Tools: Git, Docker, Google Cloud Platform, Figma, Trello, Slack