

Ernesto Reyes

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Education

University of California, Merced

Merced, CA

Bachelor of Science in Computer Science & Engineering

Experience

Software Developer Intern

Jun. 2024 – Sep. 2025

Conectado Inc.

- Engineered a seamless migration of 50,000+ documents from NoSQL to a relational SQL database, improving relational data handling, optimizing data accessibility, and reducing projected operational costs by ~50%.
- 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.

AI Strategy Consultant - Contract

Oct. 2024 – Present

Conectado Inc.

- Designed and delivered core curriculum modules with live hands-on demonstrations for 30+ business owners, achieving an average satisfaction rating of 9/10 based on participant surveys
- Built practical AI systems—including smart assistants, multi-step workflow automations, and agents—to model real-world business use cases.
- Developed AI-assisted data analysis workflows that transformed raw business data into actionable insights within seconds.

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.

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, SQL, C/C++, HTML/CSS

Frameworks/Technologies: React, NextJS, Vue, Motion, Tailwind, Firebase, ExpressJS, Flask

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