

Justin Chang

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SKILLS

- **Languages:** Python, TypeScript, JavaScript, SQL
- **Frameworks & Libraries:** Next.js, React, Node.js, Firebase Genkit, Langchain, Flutter Flow, Material-UI
- **Tools & Platforms:** Firebase (Auth, Firestore, Functions), Git, GitHub, Google Cloud Platform (GCP), Flowise AI

EXPERIENCE

Conectado Inc Merced/Hybrid

Generative AI Full Stack Developer Intern January 2024 - Present

- Developed two core AI features: a RAG-powered chatbot that improved career recommendation accuracy by 100
- Architected and implemented dynamic Agent Workflows using Firebase Genkit and personalized VectorDBs to deliver a more tailored and effective user guidance system.
- Deployed an AI-powered web scraper using Firecrawl to populate the Firebase datastore, increasing listed job opportunities by 45%.
- Engineered the application's front-end architecture using Next.js, implementing server-side components, client-side routing, and secure authentication flows with Material-UI.

Division of Equity, Justice, & Inclusive Excellence, UC Merced UC Merced

App Developer Intern September 2023 - Present

- Engineered a custom video player in Flutter Flow with robust event tracking to automatically award credit upon completion, ensuring compliance with educational program requirements.
- Designed and implemented a full-circle reward system, from earning 'Gems' for engagement to a redemption flow with inventory management, boosting student participation.
- Performed rigorous testing and debugging to ensure app stability and a seamless user experience.

Fresno State Information Technology Services Fresno

DXI Developer Intern June 2023 - August 2023

- Developed a custom events list widget with dynamic filtering and sorting, increasing user engagement with campus events by 15%.
- Built and optimized a dedicated API route to serve event data, improving data retrieval times and ensuring a real-time, responsive user experience within the widget.

PROJECTS

Conectado Digital AI Backpack 🌐Live Demo

- A full-stack web application featuring a RAG-powered chatbot and semantic search to provide accurate career and job recommendations to users.
- Built with Next.js, React, Firebase Genkit, and Google's Gemini API, supported by a backend that scrapes and processes job data.

G.E.M.S. Educational Flutter App 🌐Live Demo

- An iOS educational app built with Flutter Flow that rewards students for completing video-based lessons.
- Features a custom video player with completion tracking and an integrated rewards system where students earn and redeem 'Gems'.

EDUCATION

University of California, Merced Merced, CA

B.S. in Computer Science & Engineering August 2021 - May 2025

- GPA: 3.6

CERTIFICATIONS

Introduction to Generative AI Google Cloud — Coursera

- Issued June 2025 — Verification Link