

Rodrigo Lizalde Sanchez

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PROFILE

Full-stack software engineer who built and maintained a federated data platform unifying 20M+ law-enforcement records across agencies, reducing data-gathering workflows by over 90%. Proficient in JavaScript/TypeScript, Python, and PostgreSQL with hands-on experience in AI/LLM integration and RAG pipelines. Fluent in English and Spanish; intermediate Mandarin Chinese.

EDUCATION

University of California, Santa Cruz
Bachelor of Science in Computer Science

Santa Cruz, CA
Aug. 2019 – June 2023

EXPERIENCE

Software Engineer I

October 2024 – Present

Catheris @ C3.AI

Redwood City, CA

- Developed and maintained core platform features using JavaScript, TypeScript, and the C3 AI platform that unified 20M+ law-enforcement records from disparate systems into a federated data image, enabling real-time cross-agency search and reducing investigator data-gathering time by >90%
- Conducted on-site assessments with law-enforcement officers across multiple agencies, mapping legacy data structures and coordinating secure data-export processes that ingested millions of additional records into the federated platform
- Automated evidence reporting and crime trend detection workflows using Python, Javascript and C3 AI data pipelines, reducing investigative timelines from days to minutes
- Built geospatial analysis and dynamic visualization tools using JavaScript and mapping libraries, enabling investigators to identify crime patterns and geographic trends with turnaround times decreasing from four days to instant availability

Software Engineer

October 2023 – April 2024

Ocean View Leads LLC

San Diego California

- Developed an AI-powered legal document processing pipeline using Python, integrating LLM models and automation workflows that reduced document processing and review time by 90%
- Built proof-of-concept prototypes using Python and REST APIs to validate new features and technical approaches before production deployment

PROJECTS

YouTube Comments Reborn | *Chrome Extension, Back-End Development, Database*

Capstone Project

- Designed and developed the backend for a Chrome extension that reimplemented YouTube comment functionality on disabled comment sections by querying a custom database
- Managed data storage and retrieval to support seamless comment display and interaction
- Project removed from the web store by the team due to ethical considerations, demonstrating commitment to responsible software development

Art Portfolio Website | *Next.js, Tailwind CSS, Docker, PostgreSQL*

Personal Project

- Built a fully responsive art portfolio website using Next.js and Tailwind CSS to showcase digital artwork and projects
- Integrated Supabase (hosted PostgreSQL) for managing artwork metadata, user authentication, and real-time data interactions
- Developed dynamic content management features, allowing easy addition and organization of new artwork
- Deployed and maintained the application on Vercel, ensuring reliability and performance optimization

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL

Frameworks: Node.js, React, Redux, Express.js, Next.js, Tailwind CSS, Selenium

Databases: PostgreSQL, MongoDB

AI/ML: RAG, LLM Integration, Prompt Engineering

Cloud & DevOps: Docker, Grafana, OpenSearch, Git, CI/CD

Concepts: REST APIs, System Design, Data Modeling, Agile/Scrum, Geospatial Analysis