

Luis Sanchez

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Education

University of California, Berkeley

Expected Graduation: December 2025

B.S. Computer Science + Data Science

GPA: 3.7

Relevant Coursework: Artificial Intelligence, Machine Learning, OS, Data Structures/Algorithms, Great Ideas of Computer Architecture, UX/UI, Computer Security, Internet Architecture, Efficient Algorithms & Intractable Problems, Algorithmic Economics, Database Systems, Agentic AI

Activities: [Cal Nu Jazz Ensemble](#) Pianist, Berkeley CalHacks Mentor, CS61A & CS61B Academic Intern

Experience

Duolingo - Software Engineer Intern

May 2024 - July 2024

- Engineered a machine learning search algorithm improving content discoverability for **5 million daily users**, and reducing load times by **+23%** for [Duolingo Stories](#)

Chegg - Software Developer Intern

June 2023 - August 2023

- Developed and deployed a Named Entity Recognition model for search query intent detection using **BERT** and **spaCy**, improving search relevance for Chegg's Q&A AI platform, and speeding up query response time by **+28%**

Proctor and Gamble - Data Science Intern

June 2022 - Aug 2022

- Intern of the month award for dashboard using SQL and Power BI to enhance data analysis efficiency for D.S. R&D
- Transitioned over **4 billion** rows of data to daily-refreshed, point-in-time visualizations for over **400** employees

Work

SimuTrader [Github Repo](#)

- Simulated real time trading app w/ 30,000 + equities (stocks, ETFs, mutual funds) & 2000+ cryptocurrencies integrated a **RAG pipeline** w/ **LangChain** powered by GPT4o Claude 3.5 to execute trades and respond to queries.
- Supports futures, crypto wallet integration, automated risk management, stop-loss, DRIP investing, tax/P&L realism, current news and equity sentiment, portfolio risk and diversification analysis. Modern, simple and educational.

PrepAlchemy (UC Berkeley CalHacks AI Hackathon Su 24) [Devpost Link](#)

- Professional AI mock interviewer, reads linguistic meaning facial expressions and tone of voice to respond with a realistic empathic voice. **3rd** place Hume API Award Nominee among 1200 hackers
- Supports various voices and personalities, resume/ context upload, and generates full emotionally color coded transcript with analysis of communication shortcomings, and insightful conversational trigger points to practice

Proper Bones [Website link](#)

- Ecommerce website for selling upcycled furniture, combining sustainable design and modern resale.
- \$5,000+ MRR** in 2024. Fundraised **\$2000+** and sponsored **\$3000** for Bay Area Furniture Bank Fundraiser Gala

Inby [Github Repo](#)

- Full Email client with RAG AI agent that automatically labels & organizes all incoming mail, drafts intelligent replies/templates for high-priority messages based on user defined rules and contextual understanding.

Skills & Technologies

Languages: Python, JavaScript, TypeScript, Go, Java, C++, SQL, C, Rust **Frameworks:** React, Next.js, Node.js, Express, Flask **Tools/Platforms:** Git, Docker, Postman, Supabase, Firebase **Databases:** PostgreSQL, MongoDB, Redis, SQLite **Cloud/DevOps:** AWS (EC2, S3, Bedrock), GCP, Heroku, CI/CD, Vercel **AI/ML:** PyTorch, TensorFlow, OpenCV, scikit-learn, Mastra, LangChain, Pinecone