Luis Sanchez

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Education

University of California, Berkeley	Expected Graduation:Winter 2026
B.S. Computer Science + Data Science	GPA: 3.85

Relevant Coursework: Artificial Intelligence, Machine Learning & Neural Networks, Micro/Macroeconomics, Econometrics, Data Structures/Algorithms, Computer Architecture, Cryptography, Data Science, UX/UI, Computer Security, Internet Architecture, Efficient Algorithms & Intractable Problems, Algorithmic Economics, Database Systems, Operating Systems

Activities: CalHacks Director/Mentor, Cal Nu Jazz Ensemble Pianist, Berkeley CSM Mentor

Experience

Software Engineer Intern, *Duolingo Thrive Internship*   **May 2024 - July 2024**

- Engineered a machine learning search algorithm alongside a team of interns, improving content discoverability by **20%** for **5 million daily users**, and optimized React components, reducing load times by **23%** for Duolingo Stories
- Presented a full-stack project to C-suite executives, showcasing React-based frontend and Prometheus metrics implementation for Stories search, demonstrating a **45%** improvement in automated testing coverage and speed.

Research Intern, *Berkeley Artificial Intelligence Research* (BAIR)   **May 2023- July 2023**

- Optimized machine learning models using Python (TensorFlow, PyTorch) to achieve a **30% increase** in malicious advert detection accuracy, enhancing protection against ransomware, phishing, and other cybercrime threats.
- Feature engineered model and conducted exploratory data analysis on **1M+** web pages using pandas and NumPy, achieving **96%** model accuracy in identifying malicious URLs and potential cybersecurity risks

Data Engineer Intern, *Proctor & Gamble*   **June 2022 - Aug 2022**

- Designed an automated dashboard using SQL and Power BI to enable product quality and statistical data analysis
- Transitioned over **4B** rows of data to daily-refreshed, point-in-time visualization and **5** quality assurance reports.

Projects

Satoshi Sailors **| Solana Foundation Radar Hackathon**   **Sep 2024**

- Developed a multiplayer PvE game on the Solana ecosystem, featuring minted NFTs as deployable ships with real-time battle mechanics, achieving scalable deployment with Dockerized game servers integrated using an Anchor program with a Javascript and Unity client.

PrepAlchemy **| CalHacks AI Hackathon 2024 Award Nominee** (Hume API) Berkeley, CA   **June 2024**

- Engineered a GPT-4o powered communication training platform that seamlessly integrates the Hume API to analyze speech prosody and facial expressions to provide accurate feedback based on user input in a real-time simulation of an interview with a fully responsive voice model.

Proper Bones **| Retail Website**   **Dec 2022 - Present**

- Developed a full-stack retail website for selling vintage furniture and decor upcycling, utilizing React.js frontend hosted on Amazon S3 with CloudFront CDN for fast global delivery, and a Node.js RESTful API backend containerized with Docker through Amazon ECS for scalability. Implemented OAuth 2.0 SSL/TLS encryption.
- Integrated Klarna Afterpay API for flexible payment options, increasing customer conversions by **20%** over 3 mos.

Technologies/Skills

Proficient Python(Pandas , Numpy, PyTorch, TensorFlow) - Java - SQL - R - Git - No-Sql

Familiar   React - Go - Solidity - AWS - Dockers - Javascript/Typescript - HTML/CSS - RISC-V Assembly