

Luis Bravo

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EDUCATION

University of California, Santa Barbara (UCSB), Santa Barbara, CA
Bachelor of Science (B.S.), Computer Science

Expected Jun. 2025

EXPERIENCE

Futureforce Tech Launchpad Scholar / SWE Intern

June 2023-August 2023

Salesforce / San Francisco, CA

- Underwent intensive training in full-stack web development, gaining expertise in SQL, JavaScript, React, Express, and Node.js.
- Spearheaded the comprehensive development of the 'Ai Profolio' platform, which became the flagship project for the internship.
- Received accolades from management and peers for technical innovation and project outcomes.

Student Researcher

September 2022-June 2023

UCSB Systems and Networking Lab / Santa Barbara, CA

- Collaborated on improving "Trustee," a Python package used to translate black box ML models into interpretable decision trees.
- Led the transition of Trustee's trust report from CLI to an accessible HTML format, enhancing usability and sharing capacity.
- Introduced methods to prioritize "top-k" leaves in DTs, aiding in the detection of shortcut learning strategies in ML models.
- Tested the refined Trustee algorithm on diverse datasets (e.g., IDS 2018, CIC-Bell-DNS-EXF 2021).

PERSONAL PROJECTS

Ai Profolio

- Architected and constructed a platform at aiprofolio.com enabling users to design and disseminate personalized digital portfolios.
- Executed front-end design with React.js and CSS, ensuring a responsive and mobile-compatible user interface.
- Devised RGB tools for randomized color palettes, complementary accent hues, and optimized text colors for readability.
- Designed a binary image storage system compressing images converting to base64 for front-end rendering efficiency.

Fridge Mate

- Developed a SwiftUI-based app leveraging CloudKit for real-time fridge management tailored for college roommates.
- Designed QR code integration for seamless joining of fridges, bolstering user experience.
- Integrated CloudKit-based user authentication ensuring secure access and personalized fridge content tracking.
- Embedded a dedicated history tab, recording real-time inventory updates, promoting collaborative content monitoring.

Invoice & Estimate Manager

- Engineered a robust Python-based invoice and estimate manager, leveraging Tkinter GUI for an increased user experience.
- Incorporated advanced data persistence mechanisms ensuring unwavering data retention and consistency throughout multiple sessions.
- Harnessed the ReportLab toolkit to produce sleek, professional-grade PDF documents for client invoicing and estimates.
- Incorporated dynamic pricing calculations, paired with smart form validation techniques, to ensure precise and error-free invoicing.

SKILLS

Python, Javascript, Swift, C++, SQL, Bash, Node.js, React, Express.js, HTML, CSS, iOS Development, REST API Development, PostgreSQL, Firebase Hosting, Git, Github, Jest (Testing), Firebase Hosting, Render, Test-Driven Development, Continuous Integration (CI), Continuous Deployment (CD), Object Oriented Programming, Design Patterns, Shell Scripting, Unit Testing, Agile, Scrum, Kanban, Communication, Teamwork, Problem-solving, Critical Thinking, Time Management, Adaptability, English, Spanish.

RELEVANT COURSEWORK

Intro to Computer Science, Problem Solving (I & II), Object-Oriented Design, Foundations of Computer Science, Computer Organization, Intro to CS Research, Data Structures & Algorithms, Computational Science, Undergraduate CS Research, Computer Architecture, Operating Systems, Software Systems, Computer Security, Calculus (I, II & Vector), Linear Algebra with Applications, Differential Equations, Probability & Statistics.