

PEDRO SERDIO HANK

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO, San Diego, CA

Candidate for Bachelor of Science, Mathematics - Computer Science

Expected June 2025

AWARDS: Fall Quarter 21, UCSD Provost Honors, Winter Quarter 22, UCSD Provost Honors, Fall Quarter 23, UCSD Provost Honors

RELEVANT COURSEWORK

Programming (Java, C/C++, Python), Advanced Data Structures, Design and Analysis of Algorithms, Graph Theory, Modern Algebra, Statistical Methods, Discrete Mathematics, Web Client Languages, Data Science in Practice, Software Engineering

TECHNICAL SKILLS

Python, Java C/C++, HTML, CSS, Assembly Programming Language, Microsoft Office/Google Suite, macOS, Windows, Linux, Git, Photoshop, iMovie Software, MATLAB, LaTeX, Quarkus, JavaScript, VertexAI, Figma

ADDITIONAL SKILLS

Programming Proficiency, Algorithmic Thinking, Problem-Solving, Mathematical Aptitude, Critical Thinking, Communication Skills, Time Management, Independent Worker, Team Collaborator, Researcher, Designer, Iterator, Creative Thinker

LANGUAGE SKILLS

Spanish (NATIVE): Proficient in reading, writing, speaking, and comprehension

English (NATIVE/BILINGUAL)

EXPERIENCE

Software Engineer Intern

BANORTE, CDMX, Mexico

July–October 2024

- Created a Proof of Concept (POC) for an internal tool, a chatbot for automating and optimizing Levantamiento de Requerimientos (Requirements Gathering) documents.
- Utilized web languages, Java, and the Quarkus framework to host and make the application cloud-native, with the chatbot model connecting to Gemini through Google's Vertex AI.
- Designed the application with a microservice architecture, ensuring each component can be individually replaced or reused in other applications.
- Joined the full production team for this 12-week project, collaborating with various company teams including Cyber Security, Project Managers, AI/ML Coders, and Cloud Developers

Software QA Intern

GRUPO CALIENTE, CDMX, Mexico

July–August 2023

- Collaborated with various development teams including Back End, Front End, App Dev, and Web Dev for major betting websites www.caliente.mx and winner.mx.
- Managed and updated banners/promotional images in both gambling websites, ensured no bugs or errors present in test websites before pushing and changing the live sites.
- Ensured overall quality of new features and enhancements across desktop and mobile.
- Gained understanding of agile workflows and cross-functional collaboration at a fast-paced software company.
- Learned how sprints and projects work in a software company to maximize productivity and prioritize fixes for bugs that emerge.

ADDITIONAL EXPERIENCE

Sales Associate

UCSD BOOKSTORE

May 2022–Present

- Provide personalized assistance and guidance to customers, creating a positive shopping experience through effective communication and building rapport.
- Play a pivotal role in achieving sales targets, promoting Apple products, handling transactions, and keeping an organized and efficient workspace.
- Responsible for the critical tasks of opening and closing procedures, alongside providing support in comprehensive training to new hires, ensuring smooth integration into our operational protocols at the school bookstore.

PROJECTS

Developer Journal WebApp

- Designed and developed a local-first developer journal using HTML, CSS, and JavaScript, focusing on lightweight and responsive functionality.
- Created UI/UX designs, including animations, color schemes, and layouts, informed by wireframing, user stories, and product research.
- Utilized Figma for mock-ups and animations to refine designs before implementation.
- Collaborated with development teams to integrate components, providing guidance on HTML structure within design constraints.

Digital Book Library Tool

- Written in Python, utilizing the Google Books API to fetch book metadata by ISBN.
- Features include manual book entry and batch input using ISBNs.
- Future plans: Implement a GUI inspired by the Library of Babel website for an interactive, web-accessible display and consultation of book collections.