

# 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](http://www.caliente.mx) and [winner.mx](http://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.