PEDRO SERDIO HANK

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO, San Diego, CA

*Bachelor of Science, **Mathematics - Computer Science*** **Sep 2021–March 2025**

AWARDS: UCSD Provost Honors (Fall 2021, Winter 2022, Fall 2023, Winter 2024, Spring 2024, Fall 2024, Winter 2025)
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

SKILLS

Technical Skills: Programming Languages: JavaScript, TypeScript, Python, Java, C/C++; Networking & Protocols: API Integration, Asynchronous Programming; Databases: API Integration experience; Development Tools: Git, Visual Studio, Linux, Windows, macOS; Frontend Technologies: HTML, CSS, React, UI/UX Design, Figma; Backend Technologies: Node.js, Quarkus; Cloud Services: VertexAI
Professional Skills: Creative Problem Solver, Quick Self-Learner, Highly Self-Motivated, Strong Product Ownership, Team Collaborator, Comfortable in Fast-Paced Environments, Globally Distributed Team Experience, Algorithmic Thinking, Critical Thinking, Communication Skills, Independent Worker, Time Management
Language Proficiency: Spanish (Native), English (Native/Bilingual)

EXPERIENCE

Software Engineer Intern | Banorte | CDMX, Mexico | July - October 2024
- Created an efficiency-focused Proof of Concept application that automated document template generation and form completion, transforming a labor-intensive 8-12 week process into a streamlined one-week workflow.
- Designed and implemented a microservice-based cloud architecture using Java/Quarkus, featuring containerized deployment for a Gemini-powered conversational AI application.
- Engineered JavaScript-based frontend components that interfaced with backend services and Google Vertex AI for intelligent natural language processing capabilities.
- Collaborated with cross-functional teams for this 12-week project, including Cyber Security, Project Managers, AI/ML Coders, and Cloud Developers.

Software QA Intern | Grupo Caliente | CDMX, Mexico | July - August 2023
- Gained extensive experience with agile workflows, sprint planning, and cross-functional collaboration in a fast-paced software development environment, learning to prioritize bug fixes and feature development based on business impact.
- Collaborated effectively across multiple development teams including Back End, Front End, App Dev, and Web Dev for major betting websites www.caliente.mx and winner.mx.
- Ensured overall quality of new features and enhancements across desktop and mobile platforms through comprehensive testing procedures.
- Developed understanding of complete software development lifecycle, from requirements gathering through deployment and maintenance phases.

PROJECTS

Front End Developer, Web Scribe: Dev Journal WebApp
- Designed and developed a local-first developer journal using HTML, CSS, and JavaScript, focusing on lightweight and responsive functionality.
- Created UI/UX design systems, 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.

Full Stack Developer, Digital Book Library Tool
- Developed a full-stack Python application integrating the Google Books API for metadata retrieval with data storage that manages diverse media types including books, comics, and manga.
- Implemented multiple data input methods including manual entry, individual ISBN lookups, and bulk imports to streamline collection management and reduce cataloging time.
- Designed a modular, extensible codebase with clean architecture principles that separates API handling, database management, and core functionality for maintainability and future expansion.
- Currently planning implementation of a GUI inspired by the Library of Babel website for an interactive, web-accessible display and consultation of book collections.

ADDITIONAL EXPERIENCE

Sales Associate | UCSD Bookstore | May 2022 - March 2025
- 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.