



# JUAN PABLO HERRERA

## SOFTWARE ENGINEER

Juan is a passionate, creative, risk taking, and goal-oriented software engineer with experience in Python, Backend development, cybersecurity, and project management. Amenable Software Engineer gifted at collaborating cross-functionally to develop innovative solutions that merge technical expertise with user-centric design principles. Proficient in leveraging diverse programming languages and frameworks to architect robust, scalable, and efficient software solutions, with a keen eye for optimizing performance and enhancing user experiences.



## CONTACT

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## • EXPERIENCE

### Software Engineer

**Freedom.finance, June 2022 - November 2022**

- Constructed and integrated a cryptocurrency wallet with non-custodial private key management for a mobile application. In a timeframe of 4 months. Improving user engagement and usability.
- Successfully launched the new version of an app integrating a cryptocurrency wallet, and a multi fund view for users. Increasing downloads by 20%

### Cybersecurity Intern

**Perficient, January 2023 - August 2023**

- Successfully developed and deployed the automation of a Dynamic Application Security Testing (DAST) program using OWASP ZAP and Jenkins.
- Performed a comprehensive penetration testing assessment on a web-based application. Reporting key vulnerabilities and laying recommendations to solve them.

### Projects:

- Developed a machine learning algorithm for classifying binary and categorical data using topology and simplicial complex
- Developed and implemented an AI using cosine matrixes to recommend movies to user based on their reviews for other movies.
- Helped with development on a web application with Retrieval Augmentation and Generation (RAG) functionalities. improving API response times by 10%
- Implemented an API that allows users to specify a personality for a chatbot with memory allowing it to engage in conversations with a user and recall ideas from previous conversations.

## • SKILLS

- Python
- Bash
- Java
- Critical Thinking
- Teamwork
- Communication
- Scrum methodologies
- Burp Suite
- OWASP ZAP
- Decision-making
- Django
- Relational Databases
- SQL
- Django
- LLM

## • EDUCATION

### Universidad Icesi

**Software Engineering, 2023**

Honor roll from 4th to 8th semester

## • COURSES | LANGUAGES

English: Advanced (C1)

Spanish: Native

### Build a Blockchain & Cryptocurrency

- Full-Stack Edition – Udemy – December 2021

### Google Cybersecurity Professional Certificate

- Coursera – August 2023