

Alejandra J. Perea Rojas

✉ aperearojas@college.harvard.edu · 🌐 github.com/alejandraprj · 🌐 alejandraprj.com

EDUCATION

Harvard University

Cambridge, MA

- Bachelor of Arts in Computer Science; Secondary in Physics. Anticipated: May 2024
- Relevant projects:
 - Turing-complete OCaml interpreter, a C++ mini-OS WeensyOS, a bash shell in C++, and a Python Ghost AI.
- Relevant coursework:
 - Systems Programming (CS61), Artificial Intelligence (CS182) Abstraction and Design in Computation (CS51), Intro to Algorithms (CS120), Applied Linear Algebra (AM120), Intro to Probability (STAT110).

EXPERIENCE

Quantum Software Developer

May-Aug 2023

IBM

Yorktown Heights, NY

- Parametric Update, Observability
- Qiskit Early Access Program + Refactoring
- Conan+CMake

Co-Founder & Lead Software Engineer

Apr-May 2023

ENTREVISTA

Apr-May 2023

- Developed, tested, and launched the MVP of [EntrevistaAI](#), an AI-powered chat-bot and simulation platform for consulting case-interviews. Designed the product and technical strategy to deploy a scalable and secure platform on AWS.
- Became a Y-Combinator VC finalist and raised \$5,000 in pre-seed funding. Recruited additional engineers to the team.

Software Engineer

Jun-Dec 2022

HARVARD UNIVERSITY

Cambridge, MA

- Revamped Teamcore's PAWS SMART API by programming a HTTP interface in Python that expedited bundled requests, which would be useful for testing and error handling. To verify results, crafted 15 artificial parks in QGIS and Azure
- Started a program that could help automate the process of error checking and data cleaning for the PAWS SMART API.

Tech Intern

May-Aug 2022

WILDLIFE CONSERVATION SOCIETY

Remote / NY

- Developed an article processing interface with Python and SQL that could help parse 1,000+ articles from both Google News and Google Scholar to assist in the development of the [WCS Library](#).
- Researched and drafted an 8-page [white-paper](#) on state-of-the-art AI video processing and conservation tools.

ACTIVITIES

Teaching Fellow

Sep-Dec 2022

HARVARD UNIVERSITY

Cambridge, MA

- Facilitated a [Systems Programming](#) class of about 200 students by section and office hours of 20+ students.
- Covered 6 topics using C++ and GNU: data memory and representation, assembly, kernel, caching, shell, and threading.

DIB Advocacy Director

Aug-Dec 2022

HARVARD WOMEN IN COMPUTER SCIENCE

Cambridge, MA

- Oversaw and collaborated with 8 members on initiatives to promote diversity and inclusion and organized events to provide more resources to underrepresented groups.

SKILLS

Programming: Proficient (3+ years) in Python and C++. Experienced (1+ years) with Go, Java, OCaml, and SQL.

Development: Proficient (3+ years) in HTML/CSS. Experienced (1+ years) with PHP, JavaScript, TypeScript, and React.

Environments: Skilled with Azure, AWS, Docker, Qiskit, OpenAI, Linux, MATLAB, GNU, and Assembly.

Language: Fluent in Spanish (native), intermediate in Mandarin Chinese, and elementary in Japanese.