

Gerardo Lopez Jr.

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University of California, Irvine (Expected June 2025)

Major in Mathematics, Minor in ICS

WORK EXPERIENCE

CP-LEADS Fellow (<https://www.digitallearninglab.org/papyrusai.html>)

Data Analyst | Irvine, CA

Jan. 2024 - Present

- Asynchronous programming to stress test websockets created in AWS and API using Python.
- Analyzed clusters of quantitative data to locate patterns using R.
- Presented findings in lab meetings with custom visual models of data made in R.

NSF REU Fellow (www.code-ai.org/)

Assistant Researcher | Irvine, CA

Jun. 2023 - Present

- Built and edited static websites using Wix and Weebly with embedded content.
- Analyzed categorical/quantitative data leading to co-authorship on research papers.
- Observed and translated students in Spanish for our data collection process within the classroom.

Private Python Tutor

Independent | Irvine, CA

May 2022 - Aug. 2023

- Tutored students independently in beginning - intermediate levels of python in UCI.
- Topics covered include: Basics, API usage, server protocols, various standard libraries etc.

PROJECTS

CodeAI (www.code-ai.org)

Assistant Researcher

Aug. 2023 - Present

- Lead developer of the backend team using Github with a team of 3 with weekly meetings.
- Developed and managed multiple Python scripts, ranging from API usage, to HTML converter.
- Implemented unit testing to the team for consistency, managed in Github repository.
- Practice AWS hosting for the development of our project.

Wonderful Citrus

Independent Developer

Jun. 2023 - Mar. 2023

- Developed a website to help calculate storage productions for Wonderful Citrus employees.
- Implemented using Python and 3rd party libraries to calculate and host the website.
- About 2 - 8 users are active daily from the company to help in their daily workstation.

Mortgage Tracker

Independent Developer

Jun.2023 - Oct. 2023

- Dynamic website created to keep track of a mortgage with custom values and user logins.
- Connected to an online database (MongoDB) through their API.
- Hosted using Google Cloud Platform.

TECHNICAL SKILLS

Program Lang: Python, R, Matlab, HTML, CSS, JavaScript, SQL

Frameworks: Pandas, NumPy, Flask, Streamlit

Software: AWS, PyCharm, IDLE, SolidWorks, Deepnote, PyJupyter, Git, Wix, Weebly

Languages: English (Native), Spanish (Native)