

Gerardo Lopez Jr.

Software Engineer

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Irvine, CA

WORK EXPERIENCE

Software Engineer

Digital Learning Lab | Irvine, CA

Jan. 2024 - Present

- Developed python code to consolidate and analyze user data for user engagement improvements.
- Created python scripts to stress test and identify weak spots in an AWS-hosted backend project.
- Implemented new UI/UX designs in the React front-end.

Data Analyst

CP-LEADS | Irvine, CA

Jan. 2024 - Present

- Analyzed clusters of quantitative data to locate patterns and create visualizations using R.
- Created and presented custom visual models of large data sets about the outcomes of user engagement.
- Received additional training in data visualization, predictive modeling, and data cleaning methods.

Assistant Researcher

CodeAI | Irvine, CA

Jun. 2023 - Jan. 2024

- Lead backend python developer, managing a team of 3 of programmers.
- Implemented unit testing structure for code quality assurance.
- Built and edited static websites using Wix and Weebly with embedded content.
- Analyzed categorical and quantitative data used in co-authorship in 2 published papers.

Contracted Projects

Software Engineer

- **Mortgage Depository**

Oct. 2023 - Feb 2024

Built a dynamic website to keep track of mortgages for both the lender and borrower. Custom login for users, connected to an online database via an API, and hosted using Google Cloud Platform.

- **Storage Production Tracker**

Jun. 2022 - Jan. 2023

Built a website in python to easily track and calculate orange production to then send orders faster and more reliably for employees.

EDUCATION

Bachelor of Science, Mathematics - University of California, Irvine

- Strong emphasis in Computer Science covering: Data Structures, API, Sockets and Protocols, Asymptotic Analysis, Advanced Object Oriented Design, Functional Programming
- Private python tutor for 2 years for any python related course offered in UCI.

CERTIFICATES

CITI Program Certification - Valid until 2028

- Allows me to work with user sensitive information.

TECHNICAL SKILLS

Languages: Python, R, Matlab, HTML, CSS, JavaScript, SQL

Frameworks: Pandas, NumPy, Flask, React, Streamlit

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

Oral: English (Native), Spanish (Native)