

Marco Gonzalez

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EDUCATION

California State University, Los Angeles
Perusing a BS in Computer Science (GPA: 3.259)

Los Angeles, CA
Graduation Date: May 2023

WORK EXPERIENCE

Johnson and Johnson Technology
Janssen Neuroscience Technology Intern

Los Angeles, CA
Starting June 6, 2022

XSEDE's ACSC/C4C
Peer Mentor

Los Angeles, CA
August 2021- May 2022

- Assisted participants to create a research question to meet the appropriate scope of workload and time of one week.
- Provided participants with an introductory lecture of data science, Python 3, and the Pandas, Matplotlib, and NumPy libraries. Created a sample Python script for participants to reference (Available on my GitHub).
- Assisted students to clean datasets, create DataFrames, debug their blockers, and create data visualizations.

Community Partners' The Engineer Factory
Computer Science Tutor

Los Angeles, CA
January 2022 – May 2022

- Conducted lectures on programming fundamentals such as procedural programming, scope, functions, data structures, and algorithms.
- Held lessons that taught app development and introduced the event-driven programming paradigm using the JavaScript language on the Code.org platform.
- Created review sessions and practice exams with the instructor to prepare students for the AP CSP exam.

XSEDE's Advanced Computing for Social Change
Data Science Research Intern

Los Angeles, CA
June 2020 – August 2020

- Learned and worked with multidisciplinary teams to apply data analysis/science, computational thinking, and gained research experience towards a social challenge.
- Hands-on experience with HPC to run, track, and stop Jupyter Notebook jobs on TACC's supercomputers.
- Used Python's Matplotlib, Pandas, and NumPy libraries to parse CSV files, initialize DataFrames, and create data visualizations with appropriate effective and engaging designs.
- Created a presentation and presented my findings upon my week-long research. (View LinkedIn for details).

NASA DIRECT STEM
Pre-Trainee

Los Angeles, CA
August 2019 – March 2020

- Attended workshops taught by professionals from JPL, UC Irvine, XSEDE, and TACC to develop advanced computational and programming skills in Python and Linux (Data science/analysis, terminal navigation).
- Applied skills learned in workshops to develop and analyze two-dimensional and three-dimensional graphs containing climate change/scientific data.
- With the contributions of XSEDE and TACC, I gained hands-on experience uploading my code to supercomputers and understanding their fundamental functions.

Projects

Personal Website

January 2022 – Present

- Developed my personal website with JavaScript, HTML, CSS, and Bootstrap for a responsive design across all devices. Website is continuously being updated and optimized and is being hosted on GitHub Pages.

Cartless

January 2022 – May 2022

- Developed the front-end and assisted with the back-end for a prototype shopping list web application that implements human-centered computing fundamentals and showcases a UI/UX driven design. (URL in LinkedIn)

GPYES

January 2021 – May 2021

- A web application that allows multiple users to connect to a web server, find their friends location, and message them. My responsibilities were overseeing and developing the front-end by using HTML, CSS, Bootstrap, and JavaScript for the Google Maps API. I also assisted in the software documentation DFD (Level 0, 1, and 2).

SKILLS & INTERESTS

Skills: Java | Python | JavaScript | HTML | CSS | Bootstrap | Tableau | Git | Unit Testing | HPC | Documentation

Interests: Software Engineering, Web Development, UI/UX, Data Science