Oscar Gandara

Denver, CO (open to relocation) • (720) 398 -1130 • ogandara99@gmail.com
linkedin.com/in/OscarMiguelGandara • https://github.com/osga1291 • www.oscargandara.com

Programming Languages and Technologies

Proficient: Python, Java and C++
Experience: JavaScript, HTML/CSS
Proficient: SQL, Linux, Mathematica, NodeJS
Experience: MongoDB, SpringBoot, React, ExpressJS, AWS

Education

Metropolitan State University of Denver *08/2020 - 05/2021*
Physics

University of Colorado Boulder *08/2014 - 08/2018*
Bachelor of Arts - Computer Science and Mathematics

Work Experience

University of Colorado Boulder, Remote - Research Assistant *05/2021 -Current*

Worked closely with faculty and graduate students to study a simplified supercomputer model of Earth's climate. Analyzed the data to look for behavior that resembles El Nino Southern Oscillation phenomenon. Discovered different trends that both support and conflict with the hypothesis.

- Used Python and Linux throughout the project.
  - Calculated statistical analysis using modules such as Numpy, Sci-kit, Pandas, and Xarray.
  - Visualized the data using Matplotlib and Linux software.
- Wrote a scientific paper for the project that will be published.
- Presented results to the scientific community through both talks and poster presentations.

Chipotle, Aurora, CO - Service Manager *07/2012 - 07/2020*

Managed employees and supervised shifts to ensure customer satisfaction and crew efficiency. Upheld high standards in a fast paced and challenging work environment.

- Demonstrated strong customer service skills, great work ethic and consistent responsibility.
- Demonstrated adaptability in a high stress environment with less than ideal working conditions.
- Ensured the success of many employees through quality training and great communication.

Projects

FinanceApp - Developed a web app that calculates users finances and displays trends using JS graphs. Designed by using OOP and having friendly user functionality. The frontend is built using JavaScript and HTML. The backend is built using Spring Boot, MySql, and Hibernate.

Physics Library - An ongoing scientific library project built to solve a variety of physics problems such as projectile motion, quantum mechanics, ODE and more. It uses methods in physics to numerically solve or graph solutions. The library is built in Python with extensive use of Numpy, Matplot, and more.

SafeAuto Project - Designed a program in Java that reads in valid driver data from files, gives the user functionality to view, manipulate and sort the data, and updates the files accordingly. The program was tested extensively using JUnit.

Skills and Courses

·Data Structures ·Algorithms ·Numerical Computation ·Databases ·Web Development ·Computer Architecture ·Operating Systems ·Agile Method ·Test-Driven Development ·Principles of Programming Languages ·Probability and Statistics ·Data Science ·Advanced applied mathematics ·Linux Administration