

Brandon Zárate | bdzarate@ucdavis.edu | (209) 603 – 7243 | brandonzarate.io

Education

University of California, Davis | Cumulative GPA: 3.91

Graduation Date: Spring 2024 with a B.S in Computer Science

Certificates and Awards at Modesto Junior College (MJC): Communication Studies Certificate, Spanish Seal of Biliteracy, Achievement Awards in Chemistry, Physics, Botany, Zoology, and Research

Skills

- Full-stack web developer using Git, HTML, CSS, JavaScript, TypeScript, React, and some Django.
- Comfortable with using Tailwind, ChakraUI, materialUI, Bootstrap, and Vite.
- Proficient in C++, Java, Python, R, and in OOP, data structures, and algorithms.
- Data Analyst in Machine Learning through R and Python.
- Excellent in interpersonal communication and working in groups.
- Always eager to learn and grow in any situation.

Work Experience

Machine Learning Analysis – Python/R/Git – June 2023 to Sept 2023

- Analyzed and wrote about the fairness-utility spectrum of machine learning.
- Analyzed the predictive outputs of linear regression and logistic regression models.
- Created a Python interfaces for R-functions through packages 'pandas', 'rpy2', and 'PIL.'
- Regularly used Git to push updates and for version control.
- Created 3D scatterplots functions in R with the ability to select certain attributes.
- Communicated daily with group members allowing work to progress efficiently.

Qualtrics Survey Programmer – JavaScript/HTML/CSS – June 2023 to Current

- Created multiple mini games for questions in a Qualtrics survey in JS, HTML, and CSS.
- Stored responses of games to a Qualtrics database through their API.

Projects

Gaming Center – React/TypeScript/ChakraUI/RAWG API – Sept 2023 to Sept 2023

- Designed UI with ChakraUI that displays a game gallery, a list of genres, and search bar.
- User can filter games by genre, platform, and order by options or use the search option.
- Data is retrieved from RAWG's API for each filtered request.

Personal Website – React/JavaScript/Tailwind – Aug 2023 to Sept 2023

- Created a dynamic React website with styling, smooth animations, and smooth scrolling.
- Used useState and Tailwind to change UI based on screen size.
- Created dynamic lists by mapping elements in list to list items.

Extracurricular Activities

Prep-Medico Cohort @UCDavis – May 2021 to Jul 2021

- Participated in discussions of disparities with health professionals.
- Learned how to succeed in disadvantageous situations.

Air Quality Research @MJC – Aug 2020 to Feb 2021

- Developed hypothesis for our study based on geographical structures of the SJV Basin.
- Analyzed relationship between direction & speed with pollution particulates of a path.

Chemistry Club @MJC – Sept 2019 to Feb 2021

- Held vice president position, conducted meetings, and organized workshops.
- Managed funds and performed exciting experiments for children and parents.