Brandon David Zárate Estrada | bdzarate@udavis.edu | (209) 603 – 7243

Education

University of California, Davis | Cumulative GPA: 3.89
Graduation Date: Spring 2024 with B.S in Computer Science

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

Skills

- Front end web developer with experience in HTML, CSS, JavaScript, TypeScript, and React.
- Data Analyst in Machine Learning through R and Python.
- Proficient in fundamental concepts like OOP, data structures, algorithms through C++ and JSON.
- Always eager to learn and grow in any situation.

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 to children and parents.

Work Experience

Statistics Analyst – Python/R – *June 2023 to Current*
- Created a Python interfaces for R-functions through packages 'pandas', 'rpy2', and 'PIL.'
- Created 3D scatterplots functions in R with the ability to select certain attributes.
- Analyzed and wrote about the fairness-utility spectrum of machine learning.
- Analyzed the predictive outputs of linear regression and logistic regression models.

Programmer – JavaScript/HTML/CSS – *June 2023 to Current*
- Recreated the '100-Boxes' game in Game Theory with JavaScript.
- The game was created to be suitable for both large screens and smaller screens.
- Created a Python program that generates an image of two rectangles with different sizes.

School Tutor - @MJC – Aug 2020 to May 2021
- Developed tutees' skills in chemistry, physics, and math.
- Improved independent learning skills of tutees.

Projects

Personal Website – HTML/CSS/JavaScript/React – Aug 2023 to Current
- Created front-end portfolio website through use of React Components.
- Used React to create dynamic website styling.
- Used React to create a navbar, image gallery, dynamic lists, and buttons.

Ecommerce Website – Python/Django/MySQL – Aug 2023 to Current

- Created a back-end website capable of handling orders.
- Queried and manipulated data through Django ORM.

Music Player App – Python – Mar 2023 to Apr 2023
- Created a GUI with the ability to add/play/pause songs with 'Tkinter.'
- Shows all added songs to the app as a list.