

Brandon Zarate Estrada

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EDUCATION

University of California, Davis

Bachelor of Arts in Computer Science - 3.76 GPA

Davis, CA

Sep. 2022 – June 2024

Modesto Junior College

Studies in Biology - 3.94 GPA

Modesto, CA

Sep. 2019 – June 2021

Awards and Certificates

Reliability Award with CodeLab, CodePath TIP Certificate, Spanish Seal of Biliteracy, STEM Class Achievements

EXPERIENCE

Include Club Web Developer

Jan. 2024 – June 2024

University of California, Davis

Davis, CA

- Implemented JWT-based authentication in TypeScript to secure user sessions, enhancing system security and providing robust protection against unauthorized access.
- Developed and integrated a secure login form, implementing data sanitation practices to prevent SQL injection and XSS attacks, ensuring robust data security and protecting user information.
- Collaborated with team members to troubleshoot code, utilizing paired programming to improve development flow

UCD EcoCar Team DevOps Engineer

Jan. 2024 - June 2024

University of California, Davis

Davis, CA

- Developed a CI/CD pipeline using Jenkins, automating code checkout and lint checks, resulting a more efficient workflow.
- Designed Architecture for deploying Streamlit Dashboards, while maintaining high level of security on VPN.
- Containerized a PostgreSQL server using Docker, enabling consistent database access across development teams.

CodeLab Club Web Developer

Oct. 2023 - Mar. 2024

University of California, Davis

Davis, CA

- Implemented user and course Mongoose schema in Node.js for querying and updating data.
- Developed a Profile component in React featuring name and major, and dynamic degree completion progress bar.
- Created a responsive NavBar component in React for clear navigation through the website improving user flow.

ASUCD Pantry Web Developer

Sep. 2023 – Jan. 2024

University of California, Davis

Davis, CA

- Developed automation scripts using Bash to streamline the initial setup process for new developers, significantly reducing on-boarding time and minimizing setup errors.
- Identified and resolved UI inconsistencies in a React-based website, enhancing visual cohesion and improving the overall user experience.

PROJECTS

Gaming Hub Web App | React, TypeScript, RAWG API

Aug. 2023 - Sep. 2023

- Developed a video game discovery web app using TypeScript and React, improving my proficiency in both.
- Integrated the RAWG API to fetch and display video game info from their database, improving my familiarity with understanding API documentation and its consumption.

Personal Portfolio Website | React, Tailwind, HTML, CSS

Aug. 2023 – Aug. 2023

- Implemented a responsive design with Tailwind to ensure website is accessible on various devices.
- Built application using React components, focusing on clean and maintainable code.
- Deployed the website to a liver server using GitHub Pages.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, MQL, SQL, C, Java, Python, HTML/CSS

Databases : MongoDB, PostgreSQL

Frameworks: Node.js, Express.js, Next.js, React

Developer Tools: Docker, Git, Postman, DBeaver, Jenkins, CLI, Bash

Libraries: MongoDB, bcrypt, jsonwebtoken, dotenv, Prisma, Pandas