

JUAN SIERRA

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EDUCATION

California State University, Fullerton

- Bachelor of Science in Computer Science
- GPA: 3.78/4.0
- Relevant Coursework: Database & File Structures, Computer Communications, Web Front-End Engineering, Web Back-end Engineering, Computer Security, Mobile Software Development, Compilers and Languages, Operating System Concepts, Machine Learning, Artificial Intelligence, Algorithm Engineering.

TECHNICAL SKILLS

Languages | Javascript, TypeScript, Java, Python, C, C++

Back-End | Dynamodb, MySQL, PostgreSQL, MongoDB, NGINX, Flask, Amazon Web Services, Netlify, Node.js

Front-End | HTML, CSS, Svelte, React, React Native, Tailwind, Vite, Responsive Design,

WORK EXPERIENCE

Huntington Beach Union High School District | I.T

August 2025 - Present

Instructional Aide - Technology

Javascript | HTML | CSS | Chrome OS | Google Workspace | Destiny DB | Aeries DB

- Oversaw the school's official website, improving usability, ensuring 24/7 reliability, and maintaining accurate, up-to-date information to support students, staff, and the community.
- Supported school IT operations by coordinating new Chromebook requests, managing repairs, maintaining a detailed repair-tracking spreadsheet, and assisting students with software issues.
- Increased Chromebook repair logging efficiency by 24× by developing a Chrome extension that automates data retrieval into our Google Sheets, significantly improving accuracy and reliability.
- Increased the reliability of item check-ins in Follett Destiny by developing a Chrome extension that enforces proper page settings, resolving a common user complaint.

Revature | Back-end Developer

December 2024 - April 2025

Revature Pre-Employment Program

Java | SQL | JDBC | Maven | GIT | Javalin | JUnit | Mockito | Logback | Spring Framework | Spring Boot

- Developed programming skills in Java, SQL, RESTful API Construction and Spring Framework.
- Implemented project work including construction of functional REST APIs using Test Driven Development methodologies.
- Completed 108 Coding Activities.
- Showcased understanding of concepts through fourteen (14) evaluations.
- Leverage Java APIs to write algorithms to solve various challenges and problem sets.

Freelance | Fullstack Developer

December 2024 - February 2025

Web Developer

SvelteKit | CSS | RSVPify | Netlify | GitHub | DNS Management | Figma

- Designed and developed a custom wedding website using SvelteKit, delivering a visually appealing and responsive experience for over 100 users.
- Managed domain setup and DNS configuration, linking the website to Netlify for seamless deployment and reliable hosting.
- Configured SvelteKit adapter and GitHub integration to enable automatic deployments, ensuring real-time updates with every push to the repository.
- Integrated RSVPify for efficient guest management, allowing real-time RSVP tracking and automated confirmations, streamlining the planning process for my client.

Value Glance | Fullstack Developer

May 2024 - September 2024

Stock Market SaaS Platform

React | JavaScript | Dynamodb | Vite | AWS S3 | Tailwind | GitHub | Postman

- Collaborated closely with the design team in an Agile environment to develop and adjust web pages, including the Manage Subscription page that allows users to view and upgrade their subscription via Stripe, leading to a 25% increase in user satisfaction and engagement.
- Suggested and implemented a phone number input solution with automatic formatting and country code display, meeting UX requirements for U.S. numbers and allowing easy expansion for international use, saving significant development time.
- Developed and maintained a reusable component library, streamlining development processes and reducing time-to-market by 20%.
- Refactored large portions of the codebase, introducing global state management, reducing repeated code and improving performance and maintainability.
- Used GitHub to upload changes and conduct code reviews with the frontend team, ensuring code quality and collaboration across the development process.
- Utilized Tailwind CSS to implement responsive design best practices, ensuring seamless user experiences across all devices and achieving a 35% increase in mobile and tablet user retention.
- Worked on the backend, debugging, using MongoDB and Postman, and leveraging Stripe dev tools to enhance functionality and ensure

seamless payment integration.

- Onboarded a new team member, providing access to the development environment and guiding them through Git workflows, branch management, pull request processes, and task execution, ensuring they quickly became productive and aligned with team standards.

CSUF | Summer Research Intern

May 2022 - July 2022

AI And Machine Learning Applications

Jupyter Notebook | Python | Matpy | OpenCv

- Developed and executed multiple hands-on data science projects using Jupyter Notebook and Python, significantly advancing my proficiency in data analysis and machine learning fundamentals.
- Collaboratively worked with a team to identify and acquire over 10 diverse datasets for targeted research, directly enhancing the depth and breadth of project insights and objectives.
- Designed and executed a Python-based machine learning model on a selected dataset, achieving a 95% accuracy rate in predictive analysis, thereby exceeding project objectives and contributing significantly to the research outcomes.

PROJECTS

Fullstack | Bucket Buddy

April 2023 - December 2023

A bucket list website

React | Vite | Psql | AWS | Jsx | Nginx

- Deployed a feature-rich bucket list website, leveraging Nginx and Vite for seamless continuous deployment, which reduced deployment times by 40%, streamlining the update process and facilitating easier modifications.
- Implemented robust JWT-based user authentication, designed and tested to ensure secure and exclusive user access, reinforcing the system's commitment to data security and privacy."
- Utilized PostgreSQL to establish a scalable and relational database structure, optimizing data management and contributing to a 30% improvement in query performance and flexibility.
- Leveraged React to develop modular and reusable components, enhancing maintainability and speeding up front-end development by 20%.
- Created multiple interactive pages on the frontend, delivering a dynamic UX and engaging interface for improved user interaction.
- Hosted the API and PostgreSQL database on AWS using services like EC2 and Route 53, establishing a reliable and scalable infrastructure to support seamless data management and high availability.

Fullstack | AI-Enhanced Photo Platform

May 2023 - July 2023

Film photography album webpage

Python | Node.Js | Nginx | Html | CSS

- Developed and launched an advanced web platform that dynamically displays hundreds of images from a designated folder, employing state-of-the-art image recognition technology to accurately detect objects within images.
- Designed and implemented a proprietary API that smartly crops and masks detected objects in over 1000 images, enabling precise extraction and manipulation of visual elements using Javascript, HTML, and CSS.
- Seamlessly integrated the DALL·E API into the platform, processing over 500 masked images weekly to generate AI-driven modifications that significantly enhanced visual content with creative transformations.
- Performed over 30 hours of rigorous testing and debugging to refine the image recognition and modification processes, achieving a 99% accuracy rate in AI-driven enhancements and ensuring high reliability.

Back-End Software Engineer | Wordle Api

August 2022 - December 2022

Restful wordle api

Python | Nginx | LiteFs | Sql | NoSql

- Led a team effort to conceptualize, design, and deliver a robust RESTful API for a mock Wordle game, enhancing the user experience for over 10 daily players.
- Designed and deployed Nginx as a reverse proxy with integrated authentication, serving as an efficient API gateway that enhanced both performance and security."
- Configured and managed a Python RQ-based message queuing server, handling over 2,000 tasks per hour, ensuring timely data processing and system responsiveness.
- Implemented LiteFS to replicate a SQLite database, achieving 99.9% uptime and enhancing data storage and retrieval within a scalable and fault-tolerant system."

Frontend | Professional Web Portfolio

February 2024 - March 2024

Custom web portfolio

Html | CSS | Javascript

- Developed a web portfolio using HTML, CSS, and JavaScript by implementing a modular structure and ensuring cross-browser compatibility, demonstrating foundational web development skills.
- Deployed the portfolio on GitHub Pages, configured repository settings, and set up a custom domain, resulting in a 50% reduction in update time. Implemented continuous integration with GitHub Actions to automate testing and deployment, reducing errors by 30%.
- Used responsive design techniques and media queries to optimize for various devices and screen sizes, leading to a much better user experience.
- Enhanced web page functionality using Bootstrap libraries to streamline the layout and improve interactivity, resulting in improved user experience and engagement.