

# JUAN SIERRA

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## EDUCATION

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### California State University, Fullerton

- Bachelor of Science in Computer Science
- Graduation Date: December 2023
- GPA: 3.78/4.0
- Relevant Coursework: Database & File Structures, Web Front-End Engineering, Web Back-end Engineering, Computer Security.

## TECHNICAL SKILLS

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**Languages** | C, C++, Java, Javascript, Node.js, Python

**Back-End** | MySQL, PostgreSQL, MongoDB, NGINX, Flask, Amazon Web Services, Netlify

**Front-End** | React, React Native, Svelte, HTML, CSS, JavaScript, Typescript, Node.js, Bootstrap, Tailwind, Vite, Markdown, Responsive Design

## WORK EXPERIENCE

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### CSUF | Summer Research Intern

May 2022 - August 2022

*AI And Machine Learning Applications*

Jupyter Notebook | Python | Matpy | OpenCv

- Planned hands-on data science projects utilizing Jupyter Notebook and Python, aiming to master their fundamentals.
- Collaborated with the employer to actively identify and acquire relevant datasets, enhancing project insights and objectives.
- Effectively executed a small-scale program on the chosen dataset, achieving specified objectives and contributing to project success.

## PROJECTS

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### Fullstack | Bucket Buddy

April 2023 - December 2023

*A bucket list website*

React | Vite | PSQL | AWS | CSS | 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 user authentication to bolster data security and privacy for personalized bucket lists, ensuring exclusive access and fostering user trust.
- 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 database using AWS, establishing a reliable and scalable infrastructure for seamless data management and accessibility.

### Back-End Software Engineer | Wordle Api

August 2022 - December 2022

*Restful wordle api*

Python | Nginx | LiteFs | Sql | NoSql

- Led a collaborative effort within my team to conceptualize, design, and delivered a robust RESTful API for a mock Wordle game, contributing to an engaging and interactive user experience.
- Architected and deployed Nginx as a reverse proxy, seamlessly integrating authentication and serving as an efficient API gateway to optimize performance and security.
- Configured and operated a message queuing server using Python RQ.
- Executed LiteFS for replicating a SQLite database, enhancing data storage and retrieval through a scalable and fault-tolerant solution.

### Web Development | AI-Enhanced Photo Platform

May 2023 - July 2023

*Film photography album webpage*

Python | Node.js | Html

- Engineered a sophisticated web platform that dynamically showcased images from a designated folder, utilizing cutting-edge image recognition technology to detect objects within the images.
- Developed a proprietary API to intelligently crop and mask detected objects in the images, enabling precise extraction and manipulation of specific visual elements.
- Integrated the DALL·E API seamlessly into the platform, utilizing the masked images to generate AI-driven modifications that transformed and enriched the visual content in creative and novel ways.
- Conducted rigorous testing and debugging to refine the image recognition and modification processes, ensuring the reliability and accuracy of the AI-driven enhancements.