

Raul Jarquin Valdez

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EDUCATION

B.S. Computer Science

California State University, Fullerton

Graduation Date: **June 2024**

WORK EXPERIENCE

ZYMO RESEARCH | Full Stack Developer Intern| Irvine, CA

June 2023 – Aug 2023

- Collaborated closely with a senior backend developer to co-design and execute an internal cross-reference search solution using **Django** and **openpyxl**, significantly enhancing productivity and streamlining data management.
- Implemented an efficient batch upload mechanism using Django forms and openpyxl, resulting in improved efficiency in data import and manipulation.
- Developed an admin dashboard incorporating **CRUD** features, facilitating seamless updates to product details, catalog enhancements, and competitor product information.

CODE NINJAS | STEM Instructor | Fullerton, CA

Aug 2021 – Present

- Instructed small groups of children, usually with fewer than 20 students, ranging in age from 4 to 13, on coding and STEM concepts using various programming languages and tools, such as Scratch Jr., **Scratch**, **Roblox Studio**, **Unity**, and a game development platform (GDP) exclusive to the Code Ninjas curriculum which uses **JavaScript**.
- Collaborated with a coworker to facilitate the learning process, providing guidance and assistance to students as needed.
- Cultivated a safe and engaging learning environment that promoted teamwork, kindness, and respect. Encouraged students to explore **coding**, **robotics**, **electronics**, and **3D printing** through hands-on activities and projects. Provided personalized attention and support to each student to help them build confidence and feel part of the classroom community.
- Communicated with parents regularly to provide updates on their child's progress and behavior, including topics covered and skills learned in each session.

PROJECTS

NOTESS | Note-taking web app with authentication

March 2023

- Created a web application using **PHP**, **MySQL**, and **Bootstrap** that allows users to create accounts, securely log in, and save notes.
- Implemented local storage using **JavaScript**, allowing users to save and retrieve their notes across sessions and improving user experience.
- Designed the database schema and created tables using **phpMyAdmin**, ensuring efficient data storage and retrieval for the application's functionalities.

CODESHARE | Code snippet manager web application.

April 2023

- Developed a code snippet manager web application using **SvelteKit** and **TypeScript**.
- Designed the user interface utilizing the **Skeleton UI** framework to display code snippets in an easy-to-read format.
- Implemented features for users to create, delete, and mark code snippets as favorites, as well as view all code snippets in a centralized location.

SORTING VISUALIZER | Sorting algorithm visualization using SDL.

April 2023

- Developed a sorting algorithm visualization program using **C++** and the **SDL library**.
- Implemented various sorting algorithms such as bubble sort, insertion sort, quick sort.
- Utilized **SDL** to display the visualization in a graphical user interface.

SKILLS

Languages: Python, C/C++, JavaScript, TypeScript, PHP, Assembly

Backend: MySQL, Firebase, PostgreSQL

Web Development: Svelte, Skeleton UI, Django, Vue

Technology: Git, \LaTeX