

SEAN O'CALLAGHAN

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EDUCATION

University of California Merced

BS Computer Science and Engineering *GPA: 3.8*

Merced, CA

August 2019 - May 2023 (Expected)

SKILLS

Proficient: Java, JavaScript, React, React-Native, Firebase, HTML, CSS

Familiar: Python, C++, Node.js

WORK EXPERIENCE

Vista Real Estate *Lead Web Developer*

August 2020 - Present

<https://github.com/Sean-OCallaghan/VistaTracker>

- Developing a React-Native/Firebase application to improve relationships between real estate agents and clients by implementing an improved communication flow.
- Engineered an authentication system using access codes to recognize both admins and clients to show them the appropriate information.
- Automated displaying Firebase data into cards for admins to view clients and update their data.

PROJECTS

Rhyming Web App

January 2021

<https://github.com/Sean-OCallaghan/vueapp>

- Utilized the Datamuse API to fetch rhymes for an entered word for users to find words faster than a search engine.
- Constructed a component to display the word and score fetched from the API using a flatlist in Vue.js.
- Containerized the project in a Docker application and published to Github.

Palindrome Search

November 2020

<https://github.com/Sean-OCallaghan/HashTable-Palindromes-CSE-30>

- Constructed a hash table in C++ to search through 500,000 words in an average of 335 ms.
- Created a header file containing the hash table that utilizes functions meant for re-sizable arrays and linked lists.
- Transferred text data into a re-sizable array to increase efficiency instead of reading the file multiple times across multiple instances.

Twitter Clone Backend

June 2020

<https://github.com/Sean-OCallaghan/Backend-Practice>

- Programmed a Firebase API that handles GET requests to fetch user information with POST requests to handle user submissions for the profile section and posts.
- Authenticated passwords using JavaScript and Firebase authentication to ensure security for users.
- Automated errors to be displayed visually to the user and stored in a JSON array to be used within React.

Portfolio Website:

August 2020 - Present

<https://sean-ocallaghan.github.io/Portfolio-2020/>

- Customized a personal website to display my professional developments.
- Embedded a responsive design using bootstrap to ensure visibility across all devices.
- Pioneered a learning opportunity for undergraduates utilizing my website as a workshop series.

LEADERSHIP

External Outreach for the Association for Computing Machinery

June 2020 - Present

- Spearheaded a portfolio building workshop teaching 50 undergraduates about design elements in HTML, Bootstrap, JS and CSS.
- Communicated with over 20 Professors and Teaching assistants to connect with undergrads and increase engagement within the club.
- Connected with local companies to host professional workshops to over 200 members.