SEAN O'CALLAGHAN

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EDUCATION

University of California, Merced   Merced, CA
BS Computer Science and Engineering *GPA: 3.8*   May 2023-

Relevant Coursework
Data Structures, Computer Organization, Algorithm Design and Analysis, Discreet Math

SKILLS

Java, C++, Git, Maven, JavaScript, Agile, React, React-Native, Firebase, Node.js, HTML, CSS

WORK EXPERIENCE

MetLife *MTU Software Engineering Intern*   June 2021 - Present
- Reduced application development time by 25% by refactoring code and enabling builds in Maven; eliminated manual efforts to copy and compare hundreds of lines of code.
- Delivered business value every 2 weeks through agile practices and ceremonies; promoted the Scaled Agile Framework as a change agent.
- Obtained SAFe Practitioner certification.

Vista Real Estate *Lead Full-Stack 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
- Managed the state of the user with React-Redux to update displayed data across all components.

LEADERSHIP

Association for Computing Machinery *Software Engineering Lead*   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.
- Organized weekly workshops for students to learn 10 aspects of software engineering.