

Robert Vermeulen

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WORK EXPERIENCE

Software Engineering Intern - Firstleaf Wine Company in Napa, CA (Remote) - (June 2023 - Sept 2023)

Key Skills: ReactJS & Jest, Ruby on Rails, SCSS, REST API Endpoints & HTTP requests, SCRUM, Development Life Cycle.

- Produced consumer-facing code by constructing many new frontend components for the site, testing the functionality w/ Jest.
- Fixed UX bugs from existing code, modified previously made components to be used w/ new ones, & replaced deprecated code.
- Improved a backend REST API endpoint, modifying the data being sent to configure the call for a new type of product.
- Developed a proactive approach to self-learning through teaching myself two unfamiliar frameworks, ReactJS & Ruby on Rails.

Reviews Page - (Internship Capstone Project) - Firstleaf.com/reviews

- Enhanced company SEO by building a new landing page from scratch, w/ multiple custom components & 4 UI breakpoints.
- Connected to an API to receive content & create a feature flag. Optimized breakpoints by fixing bugs arisen from using old code.
- Worked in collaboration w/ product designers to implement their ideas, requiring effective communication to discuss issues.

Head Lifeguard - GCC in Golden, CO - (Oct 2018 - Dec 2022) | Mount Vernon in Genesee, CO - (June 2022 - Sept 2022)

- Directed teams of 15 - 20 guards, communicating between them & management to ensure quality services & patron satisfaction.
- Resolved issues in a fast paced environment, such as restructuring inefficient operations during a sudden management vacancy.

EDUCATION

California Polytechnic State University, San Luis Obispo

Expected December 2024

- B.S. in Computer Science with a minor in Mathematics | GPA: 3.4/4.0
- President's Honors List 2022-23; Dean's List for Fall 2023, Spring 2023, Winter 2023 & Fall 2022 quarters.

RECENT SOFTWARE PROJECTS

Eat & Greet - (Project Spanning 2 Software Engineering Courses using React Native, TS, & Firebase) - Robert303V.vercel.app/eat

- Led an agile team of 4 students to develop a full-stack mobile application, employing CI/CD to collaborate effectively as a unit.
- Personally connected the app to a Firestore DB, formulated API requests for the team to model after, & created the chat system.
- Integrated user authentication, crafted an intuitive & consistent UI, & wrote documentation to standardize design requirements.

Blog Website - (Hack4Impact Bootcamp Project using NextJS, MongoDB, & Typescript) - Robert303V.vercel.app/blog

- Created a dynamic blog on my personal site by implementing a NoSQL database & server-side rendering to view & modify data.
- Developed & integrated multiple REST API endpoints, allowing users to post comments on various pages & send me a message.

Database Analysis - (Database Systems Final Project using SQL & Python) - Robert303V.vercel.app/urbanUnrest/

- Devised 5 intriguing questions to analyze an extensive relational database, crafting & deploying complex nested queries for each.
- Connected to a MySQL server that hosted the database to send query requests & receive the results within a python host.
- Visually represented results using Matplotlib and Pygal libraries, allowing each subsequent question to build off the observations.

Games & Digital Art Site - (Personal Project using Javascript, P5.js, & HTML) - Robert303V.github.io/Games/

- Created a bot to play 2048, which makes decisions w/ a state-scoring method evaluating all possibilities reachable within 3 moves.
- Optimized the code within my HexaSnake game by employing a queue for movement & a hashmap to efficiently check collisions.

KEY SKILLS AND COMPETENCIES

Languages: JavaScript, Typescript, Python, SQL, Java, HTML, CSS, Ruby, C

Tools: Git, ReactJS, React Native, NextJS, SCSS, MySQL, Firebase, MongoDB, Ruby on Rails, Jest

LEADERSHIP ROLES AND VOLUNTEER WORK

Philanthropy Chair (Jan 2022 - Jan 2023) - **Mental Health Awareness Chair** (Fall 2021) - Sigma Pi Eta-Delta Chapter

- Managed a team of 4 directors & a network of 100 volunteers to contribute over 2,000 service hours annually in our community.
- Single-handedly planned & executed multiple campus outreach events & quarterly fundraisers, each generating \$1,000 - \$5,000.
- Communicated between external venues, service providers, & internal budget management to coordinate & facilitate events.

Media Director of 1st Annual 'HOPEful Drive' Fundraiser (Winter 2019) - Robbie's Hope Foundation

- Created & directed the HOPEful Drive w/ 3 other students, an annual competitive fundraising initiative that's now nationwide.
- Assembled & facilitated a team of 20+ ambassadors across the state to advertise the fundraiser, allowing it to raise \$24,000+.

Developer for Hack4Impact (Sept 2023 - current) | **Mentor for Freshman Engineering Students** (Jun 2023 - current)