

Robert Vermeulen

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KEY SKILLS AND COMPETENCIES

Languages: JavaScript (Most Proficient) | Python | MySQL | Java | HTML | CSS | Ruby | C++ | Assembly (Least Proficient)

Tools: Git | ReactJS | Ruby on Rails | Linux | Ubuntu | Bootstrap | P5.js | Unit Testing | Jest Testing | AB Testing | Jira

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
- Relevant Coursework: Algorithms, Data Structures, Database Systems, Systems Programming, Computer Architecture, Project Based Object Oriented Programming, Intro to Computer Security, Intro to Computer Organization.
- President's Honors List 2022-23; Dean's List for Spring 2023, Winter 2023 & Fall 2022 quarters.

INDUSTRY EXPERIENCE

Software Engineering Intern (Firstleaf Wine Company) in Napa, CA (Remote)

Key Skills: Self-Directed Learning, Problem Solving, Effective Communication & Collaboration, Adaptability, QA

- Utilized *hands-on experience as a frontend dev* to learn ReactJS, SCSS styling, advanced Javascript, and the code review process.
- Acquired knowledge of backend technologies and REST API integration, gaining a familiarity with the Ruby on Rails framework.
- Articulated technical questions and challenges clearly while *collaborating with team members* to arrive at effective resolutions.
- Developed a proactive approach to self-learning*, tackling challenges and breaking down complex projects into manageable tasks.
- Successfully resolved challenging issues in numerous project tickets, requiring *critical thinking skills to find effective solutions*.

RECENT SOFTWARE PROJECTS

Reviews Page - (Project for Firstleaf Internship using ReactJS, Javascript, and SCSS) - [Firstleaf.com/reviews](https://firstleaf.com/reviews)

- Acquired practical frontend engineering experience* by developing a new page focused on enhancing SEO to boost traffic.
- Worked in collaboration w/ product designers & another developer, *effectively communicating* to ensure alignment of our goals.
- Demonstrated problem-solving abilities by optimizing breakpoints for responsive design, significantly enhancing user experience.

Personal Projects - (400+ hours of development)

Single Player Minigames (Javascript, Processing)

- Recreated many of my favorite games by building them from scratch, while also designing creative interfaces for users to enjoy.
- Implemented virtual opponents for users to play against, often requiring me to *conceptualize and develop an original algorithm*.

Minigame Website (ReactJS, CSS, Bootstrap, Javascript, HTML)

- Originally attempted in Javascript & HTML, this page offers a centralized hub for users to access all of the above minigames.
- Currently in the process of a site rewrite using ReactJS, CSS, & Bootstrap in an effort to improve it before public deployment.

Simple Social Media Applications (ReactJS, Ruby on Rails)

- Built a social media site with each framework, gaining a deep understanding of the two technologies *through hands-on learning*.

"Contain The Strain" Covid Themed Virtual World Game - (Object Oriented Programming Course-long Project using Java)

- Designed and constructed a unique game *written in Java within a virtual world* throughout the course of a 10 week class.
- Created using a *large object-oriented hierarchy* while focusing on inheritance, cohesion, polymorphism, and pathing algorithms.
- Collaborated effectively with a partner, fostering teamwork and strong communication for project success and goal alignment.

Urban Unrest Database Analysis - (Database Systems Final Project using SQL, Python, and Jupyter Notebook)

- Devised 5 intriguing questions to analyze an extensive relational database, *designing & crafting a complex nested query* for each.
- Utilized a MySQL server through SQL connectivity within the python host, allowing the use of python to process query results.
- Learned and implemented various python libraries* to visualize data and further understand the information within the database.

LEADERSHIP ROLES AND VOLUNTEER WORK

-**Mentor for Freshman Engineering Students** (Jun 2023 - current) | Cal Poly Engineering Mentor Collective

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

-**Media Director for the First Annual 'HOPEful Drive' Fundraiser** (Winter 2019) | Robbie's Hope Foundation