

Robert Vermeulen

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EDUCATION

California Polytechnic State University, San Luis Obispo

Expected December 2024

- **B.S. in Computer Science** with a minor in Mathematics
- **Honors:** President's Honors List 2022-23 (**GPA: 3.5/4.0**)
- **Relevant Coursework:** Python: Algorithms, Data Structures, Artificial Intelligence. Java: Object Oriented Programming. C: Operating Systems, Systems Programming. SQL: Databases. Other: Software Engineering, Computer Security, & more.

WORK EXPERIENCE

Computer Science Intern

June 2024 - Current

California ISO, Firstleaf, CA

Key Skills: ReactJS, Jest Testing Library, Java, Spring Boot, SQL, Oracle, API Architecture & Design

- Developed an internal library of dynamic components w/ 100% test coverage, designed to be used without touching any code.
- Utilized this library to reconstruct & modernize a data portal which displays over 120 reports of real time data to the public.
- Constructed a robust API using Spring Boot to send queries to an Oracle database & deliver the results to the data portal.

Software Developer

Sept 2023 - June 2024

Hack4Impact, San Luis Obispo, CA

Key Skills: Typescript, Python, NextJS, MongoDB, AWS, API Endpoints, Continuous Integration

- Programmed a user-friendly web application to help a local Non-Profit dispute environmentally harmful legislation.
- Implemented web-scraping through the Beautiful Soup library, processing the data on a serverless backend with AWS Chalice.
- Crafted API endpoints & HTTP requests between frontend & backend, developed scalable components to improve UX/UI.

Software Engineering Intern

June - Sept 2023

Firstleaf, Napa, CA

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

- Produced consumer-facing code, working in a cross-functional team to implement the ideas of Designers & Product Managers.
- Enhanced company SEO by building a new page from scratch, receiving content from Contentful API. - [Firstleaf.com/reviews](https://firstleaf.com/reviews)
- Improved a backend REST API endpoint, fixed UX bugs from existing code, & refactored deprecated code.

Head Lifeguard

Oct 2018 - Dec 2022

Golden Community Center, Golden, CO

RECENT SOFTWARE PROJECTS

Ticket Teammate - (Senior Project using NextJS, NodeJS, Firebase, Paypal API, Stripe API)

- Built a full-stack web application to allow ticket reselling with no fees, contrasted to the 30%-40% fee from most ticketing sites.
- Conceived, designed, & developed an innovative new technology to allow strangers to safely & securely transfer tickets.
- Integrated the Paypal API to enable encrypted payment processing between users and comply with industry security standards.

Eat & Greet - (Project Spanning 2 Software Engineering Courses using React Native, TypeScript, Firebase, & Expo)

- Led an agile team of 4 students to develop a full-stack mobile application, employing CI to collaborate effectively as a unit.
- Connected the app to a Firestore DB, formulated API requests for the team to model after, & created the chat system.
- Integrated OAuth, crafted an intuitive & consistent UI, & maintained codebase by writing extensive documentation.

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 to \$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+.

KEY SKILLS AND COMPETENCIES

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

Tools: Git, ReactJS, NextJS, NodeJS, Firebase, MongoDB, MySQL, Spring Boot, Pandas, Numpy, AWS, Linux