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: 3.4/4.0)**
- **Relevant Coursework:** Algorithms in Python, Data Structures in Python, Object Oriented Programming in Java, Systems Programming in C, Databases in SQL & Python, Software Engineering 1 & 2, Computer Security

WORK EXPERIENCE

Software Engineering Intern   *June - Sept 2023*
Firstleaf, Napa, CA
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.

Software Developer   *Sept 2023 - Current*
Hack4Impact, San Luis Obispo, CA
Key Skills: Typescript, Python, NextJS, MongoDB, AWS, REST APIs & HTTP requests, Continuous Integration
-Programming a user-friendly site in a team of 8 students to help a local Non-profit dispute environmentally harmful legislation.
-Implementing web-scraping through the Beautiful Soup library, processing the data with AWS Chalice.
-Crafting API endpoints & HTTP requests between frontend & backend, developing scalable components to improve UX/UI.

Head Lifeguard   *Oct 2018 - Dec 2022*
Golden Community Center, Golden, CO
Key Skills: Fast Paced Problem Solving, Program Organization & Management, Team Collaboration, Leadership, Delegation

RECENT SOFTWARE PROJECTS

Reviews Page - (Project for SEI Internship with Firstleaf using **Javascript**, **ReactJS**, & **SCSS**) - Firstleaf.com/reviews
-Enhanced company SEO by building a new landing page from scratch, w/ multiple custom components & 4 UI breakpoints.
-Created a feature flag & received content w/ the Contentful API. Optimized breakpoints by fixing bugs arisen from using old code.
-Collaborated with cross-functional teams to implement the Figma of Designers & ideas of the Product Manager.

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.

Urban Unrest Research - (Database Systems Final Project using **SQL** & **Python**)
-Conducted research on trends among instances of public unrest in urban areas through analysis of a large relational database.
-Connected to a MySQL server from a Python host to send complex queries to the database & receive the results.
-Utilized Matplotlib & Pygal libraries to represent the resulting data visually, revealing key patterns that informed deeper insights.

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, Firebase, MongoDB, MySQL, React Native, AWS, Ruby on Rails, Linux