Rodrigo Samayoa

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Work Experience

COASTAL FIRST NATIONS
Fullstack Developer | January 2023 – present
- **Full-Stack Web Application Development**: Architect, implement and maintain CoastViewer, a complex mapping and data management web application serving 9 First Nations communities, utilizing a **Vue JS** frontend with **Mapbox** maps, an **Express JS REST API** backend, and **PostgreSQL** database.
- **Performance Optimization**: Improved application load performance by up to 90% when compared with previous app version, reducing average data load times from 120+ seconds to under 10 seconds through backend query optimization.
- **Technical Training & Documentation**: Conduct comprehensive online and in-person training sessions for web application users across multiple communities and maintain technical documentation for both users and developers

RIVIAN
Software Engineering Co-Op - Mobile Integration | May – December 2022
- **Automated Testing:** Designed and implemented automated integration, regression, and end-to-end tests for Rivian's mobile app using **Pytest**, **Appium** and **Postman**.
- **Hardware-Software Integration Testing**: Tested the integration of the mobile app and Rivian hardware using real and simulated vehicle and accessory hardware, ensuring that Rivian's mobile app seamlessly communicated with these hardware components as expected.
- **Collaboration and Framework Development**: Worked closely with cloud, vehicle, and mobile development teams to build an **automated testing framework** specifically tailored for Rivian's home charging stations.
- **CI/CD Pipeline Integration**: Collaborated with cross-functional teams (cloud, vehicle, mobile) to integrate testing frameworks into daily deployment cycles, improving product reliability and reducing manual testing overhead

GRASSRIOTS
Junior Web Developer Fellow | January – April 2022
- **REST API Development**: Engineered a robust **Node JS REST API** with **Express JS** backend and **Redis** caching to track user interactions and campaign data, enabling personalized campaign recommendations for nonprofit clients
- **No-Code Template Solutions**: Developed streamlined campaign page templates using HTML, CSS, and **JavaScript** on the Engaging Networks platform, allowing clients to build campaign sites without coding knowledge
- **WordPress Development**: Enhanced responsive WordPress themes and contributed to the organization's web ecosystem with improved user experience and functionality

UNIVERSITY OF BRITISH COLUMBIA
Teaching Assistant – CPSC 210 Software Construction | September 2021 – December 2021
- **Technical Mentorship**: Guided up to 30 students through hands-on **Java** programming exercises, focusing on **object-oriented programming** principles, software design patterns, and data structures
- **Code Review & Debugging**: Provided personalized guidance on software construction, computational models, and best practices for building maintainable and scalable applications to support student's development of class projects.

Education

University of British Columbia
- Bachelor of **Computer Science** - May 2024
- Bachelor of Arts in Political Science - May 2012

Red Academy
- Web Developer Professional - May 2017

Skills

Typescript/JavaScript
Node JS
Vue JS

Express JS
PostgreSQL
PostGIS
Python

Java
Pytest, Vitest, Appium
REST API design