

Robert Wong-Sing

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SUMMARY

Highly motivated and data-driven software engineer with experience building and deploying full-stack applications. Proven ability to design and implement scalable solutions, collaborate effectively across diverse teams, and explain technical concepts to technical and non-technical audiences. Seeking opportunities to leverage technical skills, drive impactful projects, and continue professional growth.

EXPERIENCE

Amyris, Inc.

Nov 2021 – Present

Software Engineer I

Emeryville, CA

- Automated troubleshooting/service ticket tracking for 50+ scientific instruments, minimizing downtime and streamlining issue resolution
- Developed RESTful APIs using the Pyramid framework (Python) and OpenAPI schema. Ensured functionality through extensive regression, unit, and functional testing
- Migrated and refactored legacy PHP front-end web pages to React, significantly improving user experience, app responsiveness, and code maintainability
- Collaborated with stakeholders to define project scopes, objectives, and requirements, ensuring alignment between technical capabilities and business needs
- Presented to 200+ R&D division members showcasing code refactoring impact, demonstrating new features, and facilitating communication between software teams and end users

Bay Area Rapid Transit (BART)

Jun 2021 – Aug 2021

Systems Engineering Intern

Oakland, CA

- Created a weather visualization overlay displaying hazard icons on a map of 100+ BART stations, structures, and railways, enhancing hazard awareness for maintenance workers
- Developed search queries and scripts, integrated REST API calls to Accuweather, and stored real-time data in a Splunk database for BART map updates
- Improved readability of the existing weather dashboard, providing a more user-friendly experience

Maxar Technologies

Jun 2020 – Sep 2020

Software Engineering Intern

(remote) San Jose, CA

- Implemented a rollback feature for data in a MongoDB database, increasing efficiency for analyzing spacecraft tests
- Built a secure notes system with user authentication, fostering productive cross-team communication
- Supported software development initiatives using Full Stack Web Development, JavaScript, Python, and Git

EDUCATION

University of California Santa Cruz

Sep 2018 – Jun 2021

Bachelor of Science in Computer Engineering

Santa Cruz, CA

TECHNICAL SKILLS

Languages : Python, JavaScript, TypeScript, Go, C/C++, SQL, HTML/CSS

Frameworks/Tools : React, Node.js, Flask, Pyramid, FastAPI, SQLAlchemy, PostgreSQL, Docker, Linux, Bash, Git, Agile

PROJECTS

Open Source Visual Overlay App | *JavaScript, HTML, CSS, Splunk*

- Packaged and deployed a custom visualization app to Splunkbase, the Splunk community app store, found at <https://splunkbase.splunk.com/app/5651/>
- Provided Splunk users with the capability to overlay custom icons on images or maps
- Maintained app with updates, added features and resolved bugs based on community feedback
- Accumulated 1000+ downloads worldwide since initial deployment in August 2021

Oscilloscope on PSoC6 | *C, Microcontroller*

- Programmed and built the functionality of an oscilloscope to run on a Cypress Microcontroller
- Utilized an LCD display to visualize single, and dual channel waveforms
- Computed frequencies and used potentiometer to scroll

English Text Poem Generator | *Java, Swing, Regex*

- Coded a program to parse English literature and extract lines containing specific words to create 3-lined poems
- Designed a GUI using Swing to select text, add words, and display constructed poem