

Joshua Cheung

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Education

University of California, Santa Cruz
B.S. Computer Science

Projects

Qvinyl2.0 *Synchronized YouTube video streaming in virtual rooms*

April 2020 — October 2020

Docker, GCP, RestAPI, MySQL, React, Tomcat, Youtube API, Socket.io, Firestore, Material-UI, Reactstrap (Full-Stack)

- Implement Socket.io, NodeJS, and Tomcat to effectively transfer data from databases to users and vice versa.
- Design robust backend infrastructure with Firestore (intermittent) and CloudSQL (persistent) to store data for text messaging, user information, virtual room data (keys, song queues, and history), and other components.
- Incorporate React framework/Reactstrap/Material-UI/CSS to produce a single page application with dynamic loading and clearly defined content for easy navigation.
- Employ Docker to GCP instances to easily spin up containerized services and simplify the deployment process.

88 Beans *Coffee inventory management mobile application*

November 2018 — January 2019

Android, Java, SQLite (Full-Stack)

- Worked closely with client to develop application and track coffee bean usage for inventory and future orders.
- Organized a simple database table in SQLite for data entry and extraction for visualization, analysis, and readability.
- Constructed an easy user interface to manage data and visualize sales for each type of coffee bean with graphs.
- Demoed features and updated client on a weekly basis to ensure the application was to client's expectations.

Work Experience

Development and Operations *Birst Inc., San Francisco CA*

October 2019 — Present

- Maintain and configure AWS instances to build application stacks for testing and development.
- Automate deployment to QA stacks with Jenkins/Chef to improve reliability and repeatability.
- Monitor and resolve any issues in QA infrastructure to ensure machine stability for deployment and application testing.
- Write scripts to eliminate unnecessary instances, images, and consolidate storage drives to reduce monthly expenses.
- Authorize selective developers to access internal and external frameworks (JIRA, BIRST, Github, Servers, Email, etc) to keep machines secure.

Software Engineer *Cisco Systems, Milpitas CA*

July 2019 — October 2019

- Implemented scripts to install selected versions of Webex onto Windows VMs to test the compatibility of each version.
- Refactored automation library in a 3-week project for an off-shore team to test the reliability of the application.
- Implemented Jenkins and JUnit to test application functionality and features to ensure quality control of Webex.

Software Engineering Intern *Cisco Systems, Milpitas CA*

October 2018 — December 2018

- Wrote Ansible playbooks to automate installation of OpenStack and configure computer networks for Webex testing.
- Integrated JUnit for Odomantus Client endpoints to dial into Webex calls to test different functionalities and features.
- Developed shell scripts to automate device registration in internal network to reduce manual interaction by 10 min/device.