Joshua Cheung

Contact

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Languages

Java, JavaScript, Python, C/C++, HTML, CSS, YAML, Shell Scripting,
MySQL, SQLite

Education

B.S. Computer Science, UC Santa Cruz
Graduated: April 2019 GPA: 3.35

Tools/Frameworks

React, Firebase, SQL, Ansible, JUnit, Jenkins, AWS, GCP, Tomcat, NodsJS,
UNIX, Android Studios, Scrum, MacOS, Windows, Linux, Git, GitHub,
Microsoft Office, OpenStack, Chef, Docker

Projects

Qvinyl2.0 *Youtube/Music sharing application with synchronized real-time streaming*   April 2020 — Present
Docker, Google Cloud Plat.(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 in the cloud and simplify the deployment process.
- Use Trello and Google drive to organize projects for development and upcoming features (CI/CD and product features).

88 Beans *Coffee inventory management mobile application*   November 2018 — January 2019
Android, Java, SQLite (Full-Stack)
- Worked closely with the client to develop an app to help track coffee bean usage for inventory and anticipate future orders.
- Organized a simple database table in SQLite for data to be entered and extracted for visualization, analyzation, and readability.
- Constructed easy user interface to manage data carefully and visualize future sales for each type of coffee bean with graphs.
- Demoed features and updated client on a weekly basis to ensure application was to client's expectations.

Budget Tracker *Personal Finance Tracking Web Application*   March 2018 — June 2018
JavaScript, CSS, HTML, Chart.js (Front-End)
- Cooperated with a team of 4 to develop a web application allowing users to visualize and monitor their bank transactions.
- Created functions to inspect and categorize each transaction in a CSV file to display graphical charts by percentage distributions
  of expenses and spending over time.
- Crafted an intuitive UI in CSS and HTML for interactive graphs and organized visual representations of large structured data.

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 on 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
- Wrote Ansible playbooks to automate installation of OpenStack and to configure computer networks for Webex use and testing.
- Integrated JUnit for Odomantus Client endpoints to dial into Webex calls to test different Webex functionalities and features.
- Used Jenkins (job) to smoke test Webex calls and features to ensure the reliability of code.

Software Engineering Intern *Cisco Systems, Milpitas CA*   October 2018 — December 2018
- Wrote Ansible playbooks to automate installation of OpenStack and to configure computer networks for Webex use and testing.
- Integrated JUnit for Odomantus Client endpoints to dial into Webex calls to test different Webex functionalities and features.
- Used Jenkins (job) to unit test Webex calls and features to ensure the reliability of code.
- Developed shell scripts to automate re-registration of devices as Spark devices in Cisco's internal network to avoid manual
  registration after devices update.