

# Brian Chang

BA, Computer Science, [University of British Columbia](#) 2018 - 2024  
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## Software Engineer Intern - Updater Team

Sept 2022 - Dec 2022, May 2023 - Aug 2023

Tesla - Palo Alto, CA

Python/Pytest/Jenkins/Splunk/Docker/Artifactory

- Decreased the testing time of a manual painpoint test by 20 hours by architecting and developing a Python Docker image to execute automatically on Jenkins.
- Created a Jenkins job that created vehicle software patch files and uploaded to Artifactory for proprietary use for Tesla's Updater team to allow custom vehicle build testing.
- Updated Tesla's Python vehicle sideloader tool to expand the capabilities to allow for vehicle software patches to be applied during a vehicle update.
- Maintained an Artifact Searcher tool used by Tesla's release team and Tesla's communication architect team to parse and download Tesla vehicle builds after release onto Artifactory. Added features such as range requests to allow for downloading sections of a build to reduce potential download times and adapted the internal parser functionality to parse JSON data as part of a migration.
- Integrated Artifact Searcher tool into the main vehicle testing suite to increase reliability of downloading tests and decrease download times by 30 percent.

## Software Engineering Intern - Mobile Software Integration

Jan 2022 - Sept 2022

Rivian - Vancouver, BC

Python/Pytest/Appium/Postman

- Signed off on 4 major release versions of Rivian's Android and iOS app by performing manual and automated testing on mobile test matrix.
- Translated 50 plus E2E manual tests to automated Appium tests by contributing 50 plus new test cases to Pytest Appium framework that checked the presence of various UI elements.
- Completed test coverage of 30 mobile backend API endpoints by spearheading the development of new Pytest framework that queried the backend results in a controlled environment.

## SIDE PROJECTS

[PricewaterhouseCoopers Blog Website](#)

React/TypeScript/Jest/Firebase/Material UI/Google Cloud Platform

- Created a full-stack blog application with 8 other UBC students in association with UBC and PricewaterhouseCoopers.
- Styled, integrated, and connected to Firebase backend over 10 React components.
- Achieved over 80% code test coverage by writing over 10 plus Jest test suites for React components.

[Personal Website](#)

React/TypeScript/HTML/CSS/Ant Design/AWS Amplify/Next.js

- Responsive personal website hosted on AWS Amplify.
- Styled and integrated all React components.

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## Technical Skills

Languages: Python, HTML, CSS, Java, SQL, Bash, TypeScript

Tools: Git, Jenkins, Docker, Visual Studio Code, Postman, AWS Amplify

Frameworks: React, Next.js, Jest

Libraries: Pytest, Appium