MARCO LIANG

CONTACTS

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SUMMARY

- Experienced in both development and QA roles, currently focussed on Android development
- Fast learner, able to collaborate with multiple stakeholders and deliver features within deadlines and deal with shifting business needs and dependencies
- Experienced in various different types of projects and technologies

KEY SKILLS

Kotlin	Swift
Python	React Native
C/C++	JavaScript
Postman	VHDL
Appium Testing	React

RECOGNITION

Google Cloud COVID Fund
DubHacks 2020

Winner of the DubHacks 2020 Google Cloud COVID funding, for creating the **BallBuddy** web app, which helps basketball players find empty courts, as well as enabling the tracking of players on the court to maintain social distancing.

EDUCATION

Bachelor of Applied Sciences
Simon Fraser University

Computer Engineering
Sep 2016 - April 2022

RELEVANT WORK EXPERIENCE

Rivian Automotive Mobile Software Engineer   Sep 2021 - Ongoing

- Contribute to the development of the Rivian Android mobile app, focussing on the consumer side
- Notable contributions include design and implementation of an image loading service, cross app data sharing, migrations from REST APIs to a GraphQL backend, and Firebase KPI tracking for analytics
- Worked with multiple teams across a multitude of functions, such as the backend cloud service development team, product, design, and contributed to the overall system design

Rivian Automotive iOS Developer & QA Engineer (Intern)   Sep 2020 - May 2021

- Contributed to multiple parts of the Rivian mobile application, from front-end UI construction to building backend connections to REST API endpoints
- Implemented MVVM architecture pattern, and reactive programming using Apple's Combine framework
- Built UIs with Apple's Interface Builder and managed them with view controllers and models
- Improved the unit test framework by producing robust test cases and refining the current test suite using the XCTest framework
- Built an automated mobile app testing suite, using Appium and written in Python
- Used Postman to validate REST API requests and responses

PerfectMind Inc QA Engineer (Intern)   Sep 2018 - Aprl 2019

- Validated and ran manual tests on web application, as well as wrote an automated smoke testing framework using Selenium and Python
- Big contributor in documenting processes and training new hires, reducing onboarding time

Huawei Technologies Software Engineer (Intern)   May 2018 - Jul 2018

- Performed refactoring and code base maintenance

PROJECT EXPERIENCE

IntelliChess React Native App + Arduino   Jan 2021 - Aug 2021

An automated chess board that moves chess pieces to create a virtual "opponent" for the player, with a companion mobile app that faciliates communications with online opponents, connected with the board via BLE technology

- Lead the team by taking on responsibilites including setting timelines to deliver milestones and managing team members based on their strengths and experiences
- Designed and developed the React Native mobile app, as well as contributed to the overall system design of the app and the hardware integration
- Achieved first place amongst a class of 23 teams, receiving the overall highest grade, and was appluaded by the instructional team for the idea and execution

Joergen iOS App + JavaScript Discord Bot   May 2020 - Dec 2020

A Discord music bot that streams music from YouTube into Discord directly, which can be controlled using chat commands in Discord, or via an iOS app, which also integrates Apple Music to allow playback from a user's music library

- Estiablished two-way communication between the iOS app and the bot using websockets to achieve minimal overhead.
- Added MusicKit integration into the iOS app to query information from Apple Music, as well as SiriKit for Siri integration, and SwiftUI for the front-end work
- Integrated the Youtube API to query for music information and allow for music streaming directly through Discord using the DiscordJS framework