Fred Wu

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Summary

I am a new university graduate that received graduation credentials as of June. The following lists my skills and qualifications

- Solid software development and debugging skills acquired from co-op and projects
- Experience with agile development process and Scrum practice
- Solid understanding of data structures, algorithms and object-oriented design patterns

Technical Skills

- **Programming Language:** Java, C, C++, Python, T-SQL, JavaScript, Haskell, Golang
- **Frameworks**: Spring Boot, Node.js, Selenium, TestNG, JUnit, Gtest, Cucumber, Spark
- **Hardware**: BeagleBone Green
- **Data Science:** NumPy, pandas
- **IDE**: IntelliJ, Clion, Android Studio, Webstorm

Work History

Software Developer Analyst Sept 2017– Dec 2017

British Columbia Automobile Association - Burnaby, BC

- Created functional and integration automation testing scripts written in **Java**
- Wrote **SQL** queries for accessing database and **JSON** files in testing scripts
- Used **TestNG** and **Cucumber** frameworks to support **Selenium** under **Page Object Model**

Education

BSC: Computing Science Sept 2014 – Apr 2019

Simon Fraser University - Burnaby, BC, Canada

Academic Projects

Immersive Worlds Command-Driven Game

- Developed a system in C++ using infrastructures : build management, version control, code reviews, issue tracking, continuous integration
- Continuously designed the infrastructure and delivered features following agile process
- Worked effectively in a group of 9 and managed the complexities and challenges
- Project Infrastructure: C++17, GitLab CI, Boost, JSON, Google Test, CMake, SQLite3

The Walking School Bus Android Application

- Created a multi-user Android App that interacts with a **Spring boot** server for The Walking School Bus to support potential users in need
- Implemented features: registering, Log-in, Log-out, profile editing, monitoring, Walking under Google map- create, view, join group, GPS location, messages, gamification, permissions etc.
- Technologies: Android, Java 8, REST API, Git

Maze Game

- Wrote a keyboard-driven Java program using Swing that allows user to play with fancy GUI
- Created game board, score board that updates by user' action through observer pattern
- Designed algorithm so that user move to get cheese and avoid moving cats
- Technologies: Java 8, Observer pattern

Dragon-Seeker Android Game

- Wrote an Android application that allows users to play with the game with multiple activities: playing, help, menu, options etc, with features including saved played history, welcome screen animations, different sounds pop-ups, etc
- Technologies: Android-Java 8, JUnit, Singleton pattern