Fred Wu

https://xuetianw.herokuapp.com

721 Gauthier Ave, Coquitlam | Cell-778-710-1035 | https://github.com/xuetianw | wuxd1302@gmail.com

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

Education

BSC: Computing Science — Sept 2014 – Jun 2019

Simon Fraser University - Burnaby, BC, Canada

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**

Academic Projects

Immersive Worlds Command-Driven Game

- Developed a system in C++ using infrastructures : build management, version control, code reviews, issue tracking, continuous integration
- Contentiously 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

Embedded Sorting Program

- Wrote a program in C running on BeagleBone Green and listen to a UDP socket for instructions from user's commands
- User uses potentiometer to selects different tasks and 14-segment displaying sorting speed
- Technologies: C, thread Synchronization, UDP, Analog to digital (A2D), display over I2C

BeagleBone Beat-Box Application

- Wrote a C program running on BeagleBone Green that uses **accelerometer**, **joystick** to play different musics and listen to a UDP socket for instruction given from users' commands
- Created a **Node.JS** Web interface that user uses to directly change beats, volume, tempo
- Technologies: C, thread synchronization, Node.JS, UDP networking

The Walking School Bus Android Application

- Created a multi-user Android App in a group of 4 that interacts with a **Spring boot** server for The Walking School Bus to support potential users
- 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