SOFIA KIM

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EXPERIENCE

Software Developer at Intel Security   Sept – Dec 2015

- Multithreaded / multiprocess development for modularization SDK, Message Bus, Settings Manager, and so on and unit tested the code with Google test
- Implemented new features for Chromium module that communicates with Chromium applications and made samples of it using **JavaScript**, **HTML**, **CSS**, AngularJS
- Implemented Sqlite3 database in C++ project which sets up and communicates with the database to handle data
- Created single and multi-process performance test scripts using Python and analyzed large data using **R**
- Created configuration file validation scripts using **Windows PowerShell** and functional test scripts using **Python**
- Added Samples for two instances communicating each other using the frameworks that the team built
- Refactored / Restructured code design to make the codes testable with Google test
- Converted Chromium shell cpp unit test cases to Google test cases
- Used: **C++11**(main), XML, JSON, Visual Studio, SVN, Code Collaborator, Coverity, Rally, Windows API, TDD, Scrum

Software Application Developer at SAP   Jan – Apr 2015

- Implemented **Java** chat application and iPhone to Arduino communicable iOS application using IoT protocol (MQTT)
- Built IoT (**CoAP**) home automation server using SAPUI5 - **JavaScript**, SQL Anywhere - **SQL**, Arduino - **C**, and Java
- Advanced CoAP library (SAPCoAP) feature implementation using **C++**
- SQL Anywhere database creation and application development
- Wrote **Python** scripts that starts SQL Anywhere database and web server and that imports data from web to database and retrieve data to .csv file
- Implemented MQTT shim (input adaptor) on Event Stream Processor using extreme programming
- Arduino projects; less memory and power consumption implementation
- Used: **Objective-C**, Xcode, Eclipse, P4V, libmosquitto, Eclipse Paho Java MQTT, MQTTKit, CoAP Californium

ICT Support Analyst at Mackenzie Health   May – Aug 2014

- Managed network closets to support network system though the building and created UPS network diagram

PROJECTS

Personal Website   Jan 2016

- www.sofiakim.me or sofiakim.github.io
- Built using Github Pages

FoodIO   SAP CO-OP Hackathon   Jan 2015

- Food truck delivery notification from Android application by sending emails which are retrieved from the separate web service
- Built and designed the entire Android application including asynchronous api calls using **Java** and Android Studio

EDUCATION

Candidate for Bachelor of Software Engineering, University of Waterloo (Class of 2018)

Sept 2013 – Present

- Languages and tools learnt: MATLAB, Keil/µVision, gtkmm, Assembly, VHDL, LaTeX, Vim, Terminal, Cmd
- Involved in **Velocity**, entrepreneurship program with University of Waterloo (Sept – Dec 2014)
- Hair donation (42cm) to A Child's Voice Foundation