

SOHYUN (SOFIA) KIM

Software Engineering

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EXPERIENCE

Software Developer

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 **Java Scripts**, **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 **Python scripts** 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 gtest
- 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

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
- Implemented **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**, **Scrum**

ICT Support Analyst

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