SOHYUN (SOFIA) KIM — Software Engineering

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EXPERIENCE

Software Developer   Intel Security   **Sept – Dec 2015**

- Implemented new features for modularization SDK and added unit tests
- Implemented new features for Chromium module that communicates with Chromium applications and made samples 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
- 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, 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

PhotoCloud   **Feb – Apr 2015**

- An iOS photo events organizer application that stores user info and event data
- Built backend using Ruby on Rails and Git

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**

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