

Jaekyong Choi

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Skills Summary

Languages: C, C++, C#, Java, Python, JavaScript, HTML5/CSS3, SQL, Bash, Lua, Lisp, Scheme, R, Assembly

Systems: Linux, Windows, OS X, Android

Tools: Git, Subversion, Mercurial, Android Studio, Unity, Wireshark, Vim, Eclipse, Visual Studio, Jenkins, JIRA,

Experience

BlackBerry

Waterloo, ON

Systems Software Developer

Sept 2016 - Dec 2016

- Designed and wrote AVRCP protocols using Android APIs to enable media browsing via Bluetooth for latest BlackBerry phones
- Implemented Bluetooth and NFC policy restrictions in the Android framework settings and UI
- Improved interoperability and fixed bugs in the Bluetooth Protocol Stack through black box debugging using Wireshark
- **Technologies:** Java, C/C++, SQL, XML, Git, Linux, Wireshark, Android, A2DP/AVRCP, NFC

Irdeto

Ottawa, ON

Software Engineer

Jan 2016 - Apr 2016

- Created an automated crawler on the eDonkey P2P Network that tracks infringed content and IP addresses
- Wrote Python scripts to analyze millions of disorganized torrent data
- Investigated and fixed errors generated by Chronos and Marathon jobs on Mesos
- **Technologies:** C/C++, Python, Git, Win32, Linux, TCP/IP, Mesos, AWS, VS2010

Imagine Communications

Waterloo, ON

Full Stack Developer

May 2015 - Aug 2015

- Developed a web-based configuration application for a back-end service using RESTful and WebSocket APIs
- Implemented a diagnostic logging service using Angular directives and TypeScript
- Integrated Chromium Embedded Framework into a WPF C# application
- **Technologies:** AngularJS, Node.js, TypeScript, HTML5/CSS3, C#, SQL, Mercurial, VS2013

Projects

Online Unity Game AI, C# Application

September 2016

- Created a Hearthstone (Online Card Video Game) client-injectable dll in C#
- Built a custom AI capable of performing at a top 50% player level

Raytracer, C++/Python Application

March 2016

- Built a RayTracer in Python using Pygame module that loads and renders .obj files
- Followed up with an upgraded RayTracer that supports shadows, reflections and anti-aliasing in C++

Education

University of Waterloo

Waterloo, ON

Candidate for Bachelor of Computer Science; Minor in Combinatorics and Optimization

Sept 2014 - present

Honors & Awards

- **President's Scholarship of Distinction:** Awarded to students with admission averages of 95+%
- **The John MacPherson Memorial Scholarship:** Awarded to a student with excellent performance in mathematics and physics