

# Jaekyong Choi

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## Technical Skills

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**Languages:** C, C++, Java, Python, JavaScript/TypeScript, HTML5/CSS3, SQL, Bash

**Technologies:** Android, React-redux, Angular, MySQL, PostgreSQL, DB2, Git

## Experience

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### Core Software Developer Intern

May 2017 - August 2017

IBM

Toronto, ON

- Expanded functionality in the REST API to improve Watson analytics of regulatory compliance
- Modularized complex React components to create abstraction for efficient front-end development
- Refactored the Redux middleware and integrated a JavaScript library to enable asynchronous requests

### Systems Software Developer Intern

September 2016 - December 2016

BlackBerry

Waterloo, ON

- Designed and wrote Bluetooth 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 to allow employers to restrict device functionalities
- Improved interoperability in the Bluetooth protocol stack through black box debugging using Wireshark

### Software Engineering Intern

January 2016 - April 2016

Irdeto

Ottawa, ON

- Created a web crawler using C++ on a P2P network to track infringed content and IP addresses
- Wrote Python scripts that parse torrent metadata to optimize data analysis of pirated content
- Investigated and resolved errors generated by Chronos and Marathon jobs on Mesos

### Full Stack Web Developer Intern

May 2015 - August 2015

Imagine Communications

Waterloo, ON

- Developed a web application for a cloud-based playlist automation service using RESTful and WebSocket APIs to allow users to modify configurations
- Implemented a diagnostic logging service using Angular to improve development processes

## Projects

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### Raytracer, C++ Application

- Created a raytracer that can rasterize objects in 3D space with shadows, reflections and anti-aliasing

### Online Unity Game AI, C# Application

- Built a client-injectable dll with custom AI capable of performing at top 50% player level

## Education

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### University of Waterloo

Waterloo, ON

Candidate for Bachelor of Computer Science; Minor in Combinatorics and Optimization | 3B

May 2019

- Relevant Courses: Machine Learning, Operating Systems, Algorithms, Databases, Data Structures, Compilers, Concurrent and Parallel Programming, Object Oriented Programming, Graph Theory