ANDREW CHOI

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QUALIFICATIONS

- Languages: C, C++, C#, Java, JavaScript, CoffeeScript, Swift, PHP, Python, Ruby, MATLAB, Bash.
- Environment & Libraries: iOS, OS X, Windows, Android, Linux, Unix, jQuery, AngularJS, Node.js, D3.
- Tools: Visual Studio, Eclipse, Xcode, Sublime Text, Git, MS SQL Studio, NPM, Bluemix, Watson APIs.
- Hardware: Integrated circuits, solenoids, transistors, multimeters, FPGA, Altera DE2.
- In all co-op work terms, received an **employer evaluation of Outstanding Performance***, a rating reserved for only few.

PROFESSIONAL EXPERIENCE

IBM	May 2016 - Present
iOS Developer	--

- Lead Virtual Rift developer on Unity for IBM's first ever Oculus Rift VR implementation in new applications.
- As a full-stack developer, took full ownership over developing Mojio API iOS app, Node.js & Laravel Digital Innovation Lab application, and Watson Machine Learning-based NAO Robot application from inception to execution.
- Environment / Frameworks: Angular, BackBone, Knockout, Node, MobileFirst, DeveloperWorks, PHP Laravel, Watson APIs.

IBM	Jan – Apr 2016
Android Developer	Outstanding Evaluation*

- Lead developer for IBM's first ever Android Instant Apps (released at Google I/O 2016), Smart Locks for Passwords.
- Took full initiative over integrating and incorporating untouched hardware-software technologies, including the Texas Instrument's SimpleLink™ Bluetooth Smart® / Multi-Standard SensorTag CC 2650 to implement an IoT device prototype.
- Leveraged and utilized the low-power BLE MEMS sensors as well as Bluetooth RSSI values in order to implement PoCs and create real-life use cases.
- Environment & Frameworks: Server - J2EE, Spring Framework, Hibernate, Node.js, Python, PHP. Solution methodologies - Waterfall, Agile, Extreme Programming. Java, Android Studio IDE.

BLACKBERRY	May – Aug 2015
Service Tools Developer	Outstanding Evaluation*

- Carried out full-stack development in implementing the enhancements to critical BB10 apps (HOTS) & web apps (BBAR Client & GreenState) that support major BlackBerry Service Product offerings, including Enterprise, Messaging, Handheld.
- Collaborated with BlackBerry Service Measurement of program managers and analysts to ensure the timely delivery of enhancements following a weekly Agile sprint cycle. Worked with BBM features, including BBM Meetings, Protected, Stickers, Voice Chat, Cross Platform Capability, as well as RIM internal JIRA.
- Fully revamped BlackBerry server web app that 20+ product managers and analysts use, for a mobile-friendly UI & UX.
- Environment & Frameworks: JQuery, Node, MS SQL, PHP, D3, HighCharts, NPM, Moment.js, Angular, Python, GitLab.

EDUCATION

UNIVERSITY OF WATERLOO	Sept 2014 – Apr 2019

Bachelor of Applied Science: Computer Engineering
- Courses: Digital Circuits & System, Embedded Systems, Digital Computers, Electronic Circuit, Algorithm & Data Structures.

SCHOLARSHIPS & AWARDS

WATERLOO ARTHUR F. CHURCH ENTRANCE SCHOLARSHIP	September 2014

- **Highest scholarship** offered by University of Waterloo to **one student** in the Computer Engineering class of 2019.
- Presented to student w/ **exemplary** extracurricular activities/exceptional academic standing upon entrance (99% average).

SOFTWARE PROJECTS

DIGITAL INNOVATION LABORATORY	July 2016

- The Innovation Lab Portal (http://digital-innovation-lab.mybluemix.net/) utilizes PHP Laravel Framework in order to display and exhibit projects completed or ideas proposed by IBM co-ops as well as full-time IBMers.