

Ju Hong Kim

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EXPERIENCE

IBM Canada - Db2 Build Infrastructure and Development

DevOps Developer

July 2020 - August 2021

- Increase productivity of developers by developing, debugging and improving build infrastructure and automation tools
- Migrate insecure legacy systems to more secure infrastructures
- Teach and mentor interns and junior employees
- **Languages and Tools:** Node.js, Perl, Python, C, Git, Clearcase, and Jenkins

IBM Canada - Db2 Build Infrastructure Intern

May 2018 - August 2019

- Monitor Unix and Linux nightly and special builds for Db2 to ensure builds are released on a regular basis
- Debug and improve build infrastructure and automation tools
- Supervise and aid in migrating an internal Linux production server
- **Languages and Tools:** Perl, C, PHP, Clearcase, Jenkins, and Buildforge

Ericsson - Student Assistance to the Standards Advisor

February 2015 - June 2015

- Server Migration and Configuration
- Managing servers and programs and debug crashes

PROJECTS

- Designed a passwordless desktop login by using your smartphone as a Bluetooth authenticator
 - Wrote the authentication module(PAM) and background process to continuously authenticate the smartphone
 - Aid in the development of the Android application to communicate with the desktop
 - Utilizes C, Kotlin, Linux Bluetooth Library Stack (BlueZ), Linux PAM, and D-Bus
- Implemented an assembler, written in C, for a 16 bit architecture to convert Hack assembly to machine code
- Collaborated with a team to redesign a prototype of IBM's Chemical Research Patent tool to enhance UX and its framework using the MERN stack
- Worked on the backend of a PHP Progress Report Card generator as a potential product to a school

SKILLS

- **Systems Programming:** C and some knowledge of C++
- **Web Design:** HTML, CSS, Javascript, PHP, JQuery, React and NodeJS
- **Database:** SQL and NoSQL (MongoDB and Firebase)
- **Scripting Languages:** Perl, Bash, and Regex
- **Other Programming Languages:** Python and Java
- **Version Control:** Git and Clearcase
- Excellent debugging skills on both code and system environment related bugs. Debugged many programs written by students and by professionals in various languages such as Python, Perl, C, Javascript, and Node.js

Education

Carleton University

September 2021 - Present

B.Sc. Double Honours in Mathematics and Physics

University of Toronto Mississauga

September 2015 - June 2020

HBSc in Computer Science With Distinction, Overall CGPA: 3.35/4

Certificates

- [Coursera - Build a Modern Computer from First Principles: From Nand to Tetris \(Project-Centered Course\)](#)
- [IBM - Cloud Core](#)
- [Coursera - IoT \(Internet of Things\) Wireless & Cloud Computing Emerging Technologies](#)