

Ju Hong Kim

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EXPERIENCE

Blackberry QNX - Student Support Developer

January 2022 - April 2022

- Assist clients on their technical issues and design questions relating to QNX, POSIX C, and Momentics IDE
- Technical issues ranges from compilation, API/utility usage, networking, and debugging crashes
- **Languages, Tools, and Environment:** C, SVN, Git, GDB, Momentics, QNX

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, Tools, and Environment:** Node.js, Perl, Python, C, Linux/UNIX 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, Tools, and Environment:** Perl, C, PHP, Clearcase, Linux/UNIX, 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

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