Ju Hong Kim

 $\begin{array}{c|c} linkedin.com/in/ju-hong-kim-zaku & zakuarbor.github.io/blog/\\ & github.com/zakuArbor \end{array}$

EXPERIENCE

Blackberry QNX - Student Support Developer

January 2022 - April 2022

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

IBM Canada - Db2 Build Infrastructure DevOps Developer

July 2020 - August 2021

- Increased productivity of developers by developing, debugging and improving build infrastructure and automation tools to better facilitate the development pipeline
- Mentored interns and junior employees on their work and programming knowledge to further their career and performance
- Migrated insecure legacy systems to secured isolated infrastructures for security compliance
- Languages, Tools, and Environment: Perl, Node.js, Python, C, Linux/UNIX, Git, Clearcase, and Jenkins

IBM Canada - Db2 Build Infrastructure Intern

May 2018 - August 2019

- Monitored Unix and Linux nightly and special builds for Db2 to ensure builds are released regularly
- Improved build infrastructure and automation tools to ensure developers have the latest stable code to improve on
- Supervised in the migration of a server to remove blockers and ensure migration was completed with minimal downtime
- Languages, Tools, and Environment: Perl, C, PHP, Clearcase, Linux/UNIX, Jenkins, and Buildforge

Ericsson - Student Assistance to the Standards Advisor

February 2015 - June 2015

- Assisted in configuration and planned migration of a server
- Maintained and debugged servers and programs to ensure services are available

PROJECTS

- Led a team of students to design a passwordless continuous desktop authentication by using a smartphone as a Bluetooth authenticator to replace password-based authentication for convenience
 - Lead developer on the authentication module and background process to continuously authenticate the smartphone via Bluetooth
 - Aided in the development of the Android app to communicate with the desktop via Bluetooth
 - o Technologies and Languages: 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 on a front-end prototype of an existing chemical research patent web app to improve UX by making the UI intuitive and allow users to accomplish their tasks with a minimal amount of actions
 - Technologies and Languages: React, Node.js, and SQL
- Implemented a progress report card generator as a potential product for a school to be mobile-friendly and intuitive
 Technologies and Languages: PHP, HTML, CSS, and Javascript

SKILLS

- Systems Programming: C with exposure to C++ and Rust
- 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

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

September 2015 - June 2020