

Mingrui Zhang
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Education

University of Waterloo

MEng in Electrical and Computer Engineering; Software specialization

Waterloo, Canada
MAY. 2022 – MAY. 2023

McGill University

B.Eng. in Electrical Engineering

Montreal, Canada
SEP. 2014 – MAY. 2018

Experience

Junior Back End Developer

Montrium

Montreal, Canada
MAY. 2023

- Participated in developing and maintaining Montrium's Connect SaaS platform digital solution built on top of Microsoft Azure.
- Helped to design and maintain a new data analytic pipeline that provides the users the ability to retrieve their audit trail efficiently.
- Maintained and created Azure DevOps CI & CD pipelines. Define the bicep scripts for the client's resources release.

Software Developer

Savoir-faire Linux

Montreal, Canada
MAR. 2019 – DEC. 2021

- Jami is a multi-platform SIP-compatible distributed peer-to-peer soft-phone and SIP-based instant messenger. The goal of my team was mainly to improve the existing Windows client and develop new features corresponding to the changes in the daemon under the existing C++ technology stack.
- Participated in migrating the Windows client development from Qt Widget modules to QML which is a declarative UI language module. Made some of the initial verification steps which could be found here. Since then, QML has been primarily used for the multi-platform development of Jami.
- Maintained the Jenkins CI & CD pipeline. Wrote the groovy scripts for the client's beta release job. Participated in the client's build automation design by utilizing CMake to generate the vcxproj and writing some of the build scripts using Python.
- Restructured the existing Wix project for better installer appearance. Optimized the existing installation sequences and added multiple new actions for a better user experience.
- Participated in maintaining the SIP backend. Debugged and tested several SIP functionalities by using various SIP accounts from different providers.

Automation Developer Intern

E-Innovation

Montreal, Canada
MAR. 2017 – AUG. 2017

- Cooperated with a Mechanical Engineering student to automate the sealing and taping progress of making a new type of electrode. Wrote weekly documents which include the progress, the design, and the logic of the system, and present to the project manager in weekly presentations.
- Designed a system based on 3D printed parts and circuits controlled by certain logic uploaded in the Arduino Uno logic board. Wrote Arduino code and designed circuits by using electronic devices which include step motor, motor driver, switches, relays, etc.

Programming Skills

Languages: C#, C++, C, Python, Javascript **Technologies:** Azure, Visual Studio, Qt, Gerrit, Jenkins