

# Jiwoo Lee

## 20-MONTHS OF PROFESSIONAL SOFTWARE DEVELOPMENT INTERNSHIP EXPERIENCE

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## Skills

**Languages** Python, Java, C/C++, HTML, CSS, JavaScript, PHP, SQL, Haskell · Korean, English  
**Technologies** JQuery, Bootstrap, Electron JS, REST API, Git, SVN, Jenkins, Jira, Selenium, Playwright, Linux/Unix, LaTeX

## Work Experience

### Evertz Microsystems Ltd.

SOFTWARE ENGINEER INTERN

May. 2021 - Aug. 2022

Burlington, ON

- Engaged in **full-stack web development** to maintain and extend a web-based routing application platform that controls device configurations and audio/video transmissions over the network. Used HTML, CSS, JavaScript, PHP, and MySQL
- Completed JIRA feature request and bug fix tickets for various web or device features that are assigned in weekly meetings
- Designed and developed **internal automation service architecture** that fetches most recent builds as they are released, and upgrades device firmwares. Used C++ for lower-level embedded device programming
- Designed and developed an **API for automating** control over the web interface and session manager
- Implemented new features and device support for a **commissioning tool** that is used by customers to configure new standalone devices. Used Python in conjunction with Selenium to automate device management on the web system
- Maintained a **cross-platform mobile/desktop application** with Apache Cordova and Electron JS that can communicate with the NUCLEUS system in real time for audio/video session routing
- Developed **software test automation system** using Python, Selenium, Playwright, Jenkins and REST API. Worked closely with the Product Verification and Quality Assurance team to ensure software quality and correctness for new features
- Gained deeper understanding in system designing, and design/requirement documents

### McMaster University

WEB DEVELOPER, RESEARCH ASSISTANT

May. 2020 - Aug. 2020

Hamilton, ON

- Designed and developed a **3D web graphics library** that allows users to create interactive web applications and animations in Elm in conjunction with our native 2D GraphicsSVG library
- Developed web applications and teach in camps as lead 3D programming instructor, reaching out to 100+ students world-wide
- Resolved bug fixes in Haskell-embedded API for **modelling optimization** problems; participated in **research conferences**

## Projects

**Chordrite** Web app for generating guitar chords and learning guitar theory. Used HTML/CSS/JavaScript and JQuery  
**UniFind** Android app that uses searching/sorting algorithms to view universities and program admission requirements  
**UniCost** Web application for managing student finances. Used JavaScript, Express JS, Node.js, MongoDB and Plotly API  
**FaceU** iOS app that uses coreML machine learning model with Vision Framework for facial recognition. Swift, XCode, Firebase

## Education

### McMaster University

BACHELOR OF APPLIED SCIENCE, HONOURS COMPUTER SCIENCE (CO-OP)

Hamilton, ON

Expected graduation 2023

- GPA:** 10.9/12.0 (3.8/4.0), Dean's Honour List
- Courses:** Algorithms and Complexity, Data Structures and Algorithms, Operating Systems, Computer Architecture, Computer Networks and Security, Software Testing, Concurrent Systems, Databases, Discrete Mathematics
- Extracurriculars:** McMaster Engineering Society, McMaster Start Coding, McMaster AKCSE, Google Developer Student Club, Korean Christian Fellowship, and McMaster Guitar Club