

Jiwoo Lee

Computer Science Student, Third-Year

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EDUCATION

McMaster University

Hamilton, ON

Bachelor of Applied Science, Honours Computer Science (Co-op)

Sep 2018 – Present

- **Cumulative GPA:** 11.0/12.0 (3.9/4.0), Dean's Honour List
- **Relevant Courses:** Algorithm and Complexity, Databases, Discrete Mathematics, Software Development, Software Testing, Concurrent Systems, Computer Architecture, Operating Systems, Network Securities

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Ruby, Haskell/Elm, MATLAB, Swift

Development: React, Node.js, Django, Firebase, MongoDB, MySQL, SQL Server, Db2, Unix Shell

Tools & Others: Git/GitHub/GitLab, LaTeX, Docker, Xcode, Android Studio, Vim, Adobe Photoshop, Fluent Korean

EXPERIENCE

Undergraduate Research Assistant

May 2020 – August 2020

McMaster University

Hamilton, ON

- **Co-developed 3D graphics API** that allows users to create interactive web applications and animations in Elm
- Authored a **significant code change** to developing tools with the API, which are being **heavily adopted** by summer camps at McMaster Start Coding and a first-year web design course at McMaster University
- Successfully demonstrated effective teamwork, organization and interpersonal skills by designing and teaching web programming in online summer camp, reaching out to **250+ students** world-wide
- Other duties: identified/resolved **code bugs** in Haskell-embedded API for modelling optimization problems, enriched written and oral communication skills by writing **documentations** and participating in **conferences**

PROJECTS

UniFind | *Java, JUnit, Android Studio, GitLab*

Jan 2020 – April 2020

- **Android application** for searching, sorting and comparing universities Ontario and display information such as admission requirements, tuition and ranking for individual programs
- Enriched leadership skills as a **project leader** in a group of 4 members for a long-term project; strictly following standard software development practices with thorough documentation, implementation, testing and final demo

UniCost | *EJS, Node.js, Express, Plotly, MongoDB*

Feb 2020

- Project for Hack the Valley 4; A **web application** that helps university students to analyze their financial standing by providing a graphic display of current trends and future predictions of their spending versus budgets
- Contributed largely in **backend development**: designing database and storing user data on server

FaceU | *Swift, Xcode, Cloud Firestore*

Feb 2020

- Project leader for QHacks; An **iOS application** that uses Vision framework and CoreML models to conduct machine learning analysis on facial features
- Responsible for creating **frontend interface** using Swift and integrating the code with machine learning model

EXTRACURRICULAR

McMaster Engineering Society | *Computer Science Student Mentor*

Sep 2019 – Present

- Paired up with first year computer science students as a mentor to provide **academic assistance** and **support network** in transition to the new university environment
- Participated in freshmen info sessions as **computer science student representative** to provide active mentorship

McMaster Start Coding | *Programming Instructor*

Jan 2020 – May 2020

- Taught algebraic thinking and web programming by **reaching out to communities** in the Greater Toronto Area
- Collaborated with other mentors to design camp programs and develop tools for the lessons; 15-30 students/session

Others: McMaster AKCSE (Association of Korean-Canadian Scientists and Engineers), Korean Christian Fellowship, McMaster Guitar Club, Volunteered as student mentor in Venture Academy