

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 communication 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

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 using Express, Node.js and MongoDB

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 the 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 program 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