

Jiwoo Lee

Computer Science Student, Third Year

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TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Ruby, Haskell, 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*

- Full time research assistant under supervisor Dr. Christopher Anand in Department of Computing and Software
- Co-developed 3D graphics API in Elm to create interactive web applications and animations
- Enriched communication skills by teaching algebraic thinking to students as a programming instructor
- Assisted research for the development of open source tools for embedding optimizations into applications (Haskell)

PROJECTS

UniFind | *Java, JUnit, Android Studio, GitLab* Jan 2020 – April 2020

- Project leader in a team of 4; Android application for analyzing and comparing universities in Ontario
- Analyzes data on application requirements, tuition, target enrolment, co-op availability and ranking to sort/search universities and their programs based on user needs

UniCost | *EJS, Node.js, Express, Plotly, MongoDB* Feb 2020

- Project for Hack the Valley 4; A web application that helps university students analyze their financial standing
- Provides a graphic display of current trends and future predictions on their spending and budgets

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

Sharp Management | *Java, Android Studio, Firebase* Jan 2020

- Project leader for Delta Hacks VI; An Android application that ensures public health and safety measures by providing information about the nearest needle disposal facilities
- Provides a community where users can upload pictures and locations of improperly disposed needles

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

EXTRACURRICULAR

Computer Science Student Mentor | *McMaster Engineering Society (MES)* Sep 2019 – Present

- Paired up with first year Computer Science students as a student mentor to provide academic assistance and support network in transition to the new university environment

McMaster Start Coding | *Programming Instructor* Jan 2020 – May 2020

- Taught coding in Elm and algebraic thinking skills in a class of elementary students
- Collaborated with other mentors to design and prepare course materials

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