# Youngsun Yoo

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## EDUCATION

**McGill University**                                                                                     Sept 2020 – May 2024
*Bachelor of Science in Computer Science, Minor in Statistics*                                 *Montreal, QC*
- Relevant Coursework: Intro to Software Systems, Algorithm & Data Structures, Object-Oriented Programming, Discrete Math, Linear Algebra, Multivariable Calculus

## EXPERIENCE

**Project Assistant**                                                                                     Dec 2017 – April 2018
*McGill University*                                                                                              *Montreal, QC*
- Collaborated with a master's student to suggest core ideas and designs for projects
- Built a prototype for a work-out band using arduino where the vibrator motor attached to the wearable band gets activated when user performs a false work-out motion
- Explored ways to detect an object's location using camera's object recognition features and constantly update information with regards to the surrounding to the user via image recognition device

**Tutor**                                                                                                        Sept 2018 – Feb 2019

- Assisted peers one on one with precalculus and calculus I by clarifying and reviewing class material
- Provided effective and useful studying strategies in order to maximize understanding

## PROJECTS

**Universal Cooking Aid System** | *Arduino, C/C++*                                           Dec 2017 – Feb 2018
- Developed a universal cooking aid system based on IoT for people with disabilities
- Built a prototype for cooking aid device using arduino, resulting in a successful detection of infrared heat and alerting users via LED and PIEZO sound detector
- Conducted an entrepreneurial analysis using the 4P (product, price, promotion, place) method to provide an effective strategy to advertise this system

**Quiznest** | *Java, Figma*                                                                             Jan 2022 – Jan 2022
- Created a study aid console-based prototype using Java which allows users to render card decks and quiz themselves
- Based on a proven studying technique,implemented a efficient sorting algorithm similar to priority queue which keeps incorrect questions to the front
- Built a UI/UX design of Quiznest with Figma to display the basic layout of the app

## ACHIEVEMENTS & AWARDS

**D-Tech Design & Technology**                                                                           Feb 2018
- Awarded a grand prize for the designing and creating an universal cooking aid system

**KOFAC Open Innovation**                                                                                May 2018
- Created a primitive model of an image recognition device using arduino for those with visual impairment

## LEADERSHIP & EXTRACURRICULAR

- Robotics Club   Sept 2018 – May 2019
- Mathematics Club   Sept 2019 – April 2020
- UN Debate Club   Sept 2019 – April 2020
- Event organizer for international students   Oct 2018 – Sept 2019
- Intramural badminton   Sept 2018 – Sept 2019

## TECHNICAL SKILLS

**Languages**: Python, Java, C/C++, HTML, CSS, JavaScript, R, Bash
**Developer Tools**: VS Code, Visual Studio, Vim, IntelliJ, Jupyter Notebook, Eclipse, Git, GitHub
**Technologies**: Linux