

Haoran Du

U2 Computer Engineering

About me

I'm passionate about conducting research after my undergraduate study, especially about applying machine learning to the problems in impactful areas, such as medicine, robotics, and communications.

Active developer @ McGill Robotics since 2018. Also proficient in English and Mandarin Chinese.

Skills



Contact



Experience

Research Assistant

Nokia

June 2019 - August 2019

Assisting research & development of Nokia's 5G technology.

Software Developer

McGill Robotics

September 2019 - Present

In charge of updating the software system used for computer vision of McGill Robotics team's Gooney-3 drone.

Education

Bachelor of Engineering

since September 2017

Major in Computer Engineering, McGill University.

Projects

Block 223

Java | UML

Supervised by Prof. Gunter Mussbacher, this is a fully playable brick breaker game modelled using MVC principles, UML, and using Java Applet and Swing packages for the UI. Placed No.4 out of 30 teams in the final competition in W2019.

CooLearn

Java | Vue.js

Supervised by Dr. Marwan Kanaan for ECSE 321 in F2019, CooLearn is consisted of frontend & backend development of website and Android app. Various build tools were used extensively from the beginning.

GameTree AI

Python

Developed during the code.jam(2019) hackathon, it uses ID3 Decision Tree model to accurately tell the difference between a customer of the high potential of making an in-app purchase of a mobile game with the other users. Placed No.3 in the sponsored category division.

Contributions

McGill

Homework Zone

Provided children support in local community in Montreal. Awarded Dean's Letter from McGill Dean of Students.(W2018)

Business

Outreach Lead Volunteer

Organized various outreach events for the promotion of McGill Robotics in Montreal elementary schools and CEGEPs.(F2018 - W2019)

IBP

Offered numerous support through International Buddy Program for 5 newcoming international members at McGill community over 2 years. (F2018 - present)

Redpath

Museum Tour Guide

Volunteer tour guide at the museum offered service to visitors from all over the world. (W2018 - F2018)

All 300/400 Level Courses

FACC 300	Engineering Economy	B-
ECSE 321	Intro. to Software Engineering	B+
ECSE 331	Electronics	Deferred (medical reason)
ECSE 324	Computer Organization	B+
ECSE 353	Electromagnetic Fields&Waves	B
ECSE 325	Digital Systems	Taking
FACC 400	Eng. Professional Practice	Taking
COMP 424	Artificial Intelligence	Taking
ECSE 444	Microprocessors	Taking
ECSE 427	Operating Systems	Taking
ECSE 458N1	Capstone Design Project	Taking

Notable 200 Level Courses

ECSE 210	Electric Circuits 2	A
ECSE 205	Prob and Stats for Engineers	A
CCOM 206	Communication in Engineering	A
MATH 240	Discrete Structures 1	A-
ECSE 211	Design Principles and Methods	B+
ECSE 223	Model-Based Programming	B+
ECSE 200	Electric Circuits 1	B+
ECSE 222	Digital Logic	B-



September 1, 2019

To whom it may concern,

Haoran Du was working as intern in Nokia Beijing office under my supervision during the summer of 2019. I'm in charge of Nokia 5G product architecture & Specification team in Beijing. Haoran's responsibilities include: assisting the research & development work of Nokia's 5G technology, processing the data generated from our simulation team, and supporting finetuning technique presentation slides before they can be shared with customers.

Haoran is motivated, a self-starter and a quick learner. He completed all his assigned tasks in a timely and professional manner. His strong verbal and written communications skills allowed him to relay information in a clear and coherent manner. Sometimes he even came with constructive suggestions for us to improve our working efficiency, which was quite impressive. E.g. the online tool he recommended for internal survey was quite handy.

Haoran is a bright and outgoing young man and he demonstrated extraordinary inter-personal skills. I do appreciate his working attitude, if there's chance in future, I would like to work with him again.

If you have any questions, please feel free to contact me.

A handwritten signature in Chinese characters, '关皓' (Guan Hao), written in black ink.

Hao Guan

A handwritten signature in English, 'Hao Guan', written in black ink.

5G Architecture & Specification Manager

Nokia Mobile networks

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