JOEY YU

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EDUCATION

McGill University
Math and Computer Science.

Montreal, QC
September. 2022 - Future

Dawson College
Enriched Pure and Applied Science.

Montreal, QC
Aug. 2020 - Present

WORK EXPERIENCE

Ciena
Software Developer Intern

Montreal, QC
Jun. 2021 - Present

- Built a converter in Python that converts Request objects in the form of acyclic trees to TOSCA YAML intent requests using DFS.
- Built a service request generator that sends TOSCA YAML intent requests to the network fabric emulator for testing the outcome of ML models.
- Wrote unit tests for all of the above functions.
- Minor bug fixes in a Golang codebase.

Dawson College
Peer Tutor

Montreal, QC
Sep. 2021 - Present

- Mostly tutoring math and physics, but able to do chemistry and biology as well.
- Math: Calculus 1, Calculus 2, Linear Algebra.
- Physics: Mechanics, Waves and Optics, Electricity and Magnetism.

VOLUNTEER EXPERIENCE

Dawson College
Mathematics Tutor

Montreal, QC
Jan. 2021 - Present

- SHS (Students-Helping-Students).
- Tutoring Calculus 1, Calculus 2 and Linear Algebra.

PixelExperience
Project Maintainer/Administrator

Montreal, QC
Aug. 2019 - Apr. 2021

- Maintainer for the OnePlus 5/5T (Snapdragon 835 Mobile Platform).
- Merging upstream changes from LineageOS and Linux Kernel Stable v.4.4.x tag.

PERSONAL PROJECTS

Astro: Star Formation

Nov. 2021

- McGill Physics Hackathon 2021 Team Project (Winner of the Astro Challenge).
- It simulates the formation of a star from small particles in space.
- We wrote our own Particle class that simulates the movement of a star, and we built the simulation using PyGame.
- Video presentation: https://www.youtube.com/watch?v=JG4PJDeQ5Hw

TreeHugger - A Social App for Reconnecting With Nature

Mar. 2021 - Sep. 2021

- A social app that focuses on sustainability and mental health.
- The front-end is built with React Native, and the back-end is hosted on Firebase.

Discord Bot

Oct. 2020 - Present

- It is able to stream music in voice chat, solve math problems using Wolfram Alpha, etc.
- Built with Python.

COVID-19 Data Visualization

Jan. 2021 - Feb. 2021

- A simple COVID-19 data visualization tool built with Plotly/Dash.
- Preview: corona.itsjoeoui.com (Hosted on Heroku).

Heat Mapping and Dynamic Heat Distribution

Nov. 2020

- Team project for the McGill Physics Hackathon 2020, built with Python and C++.
- Winner of the P4labs Heat Rover mini-coding challenge.

Skills & Interests

Proficient: Python, Git, Gerrit, Linux, Numpy, Pandas, Seaborn, Plotly, Dash, Heroku, AOSP.

Exposure: Golang, React, React Native, Java, Javascript, TypeScript, Sklearn, TensorFlow, Pygame, HTML, CSS, Django, Bootstrap, Hugo, Flutter, GCP, AWS, Azure.

Interests: Backend, Full stack, Machine learning, Algorithms, Data Structure.

Certifications

Go: The Complete Developer's Guide (Golang)

Stephen Grider - Udemy
Jul. 2021

Python for Data Science and Machine Learning Bootcamp

Jose Portilla - Udemy
Jan. 2021

2020 Complete Python Bootcamp: From Zero to Hero in Python

Jose Portilla - Udemy
Jul. 2020

Using Python to Access Web Data

Dr. Charles R. Severance - Coursera
Jun. 2020

Python Data Structures

Dr. Charles R. Severance - Coursera
Jun. 2020

Programming for Everybody

Dr. Charles R. Severance - Coursera
Jun. 2020

Honors & Awards

McGill Physics Hackathon 2021 Astro Challenge - Winner

McGill Physics Hackathon
Nov. 2021

Enriched Science Outstanding Activity Award

Dawson College
Jun. 2021

Winter 2021 - Semestral Honours

Dawson College
Jun. 2021

Students-Helping-Students Certificate of Volunteering Free Zoom Sessions

Dawson College
May. 2021

Fall 2020 - Semestral Honours

Dawson College
Feb. 2021

McGill Physics Hackathon 2020 Mini-coding Challenge - Winner

McGill Physics Hackathon
Jan. 2020

Carley Contest - Certificate of Distinction

University of Waterloo
Jan. 2019

Pascal Contest - Certificate of Distinction

University of Waterloo
Jul. 2018

Languages

English: Professional Working Proficiency.

French: Elementary Proficiency.

Chinese: Native Proficiency.