Mahir Chowdhury

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Summary of Qualifications

- Skilled in programming autonomous flight systems for DJI and Parrot drones.
- Proficient in creating computer vision and object detection models for drones using Tensorflow Lite, Roboflow, and Google Colab.
- Experienced in programming in Python, Kotlin, Java, C++, Golang, MATLAB, and HTML/CSS.
- Experienced in creating entire REST API servers using Golang, Python, and C++.
- Proficient in software development skills such as source control, error debugging, SSH tunneling, and the AGILE workflow.
- Licensed from Transport Canada in **piloting drones**.

Education

University of Windsor Windsor, Ontario

HONOURS BACHELOR OF APPLIED SCIENCE ELECTRICAL ENGINEERING WITH CO-OP

Sept. 2019 - Present

 Applied the fundamentals of software and electrical engineering such as electromagnetic fields, circuit analysis, signals and systems, and computer algorithms.

Work Experience

RIIS - (Research into Internet Systems)

Windsor, Ontario

SOFTWARE ENGINEER

May. - Sept. 2021, Jan. - Apr. 2022

- · Used web servers, REST APIs, and cloud computing that is able to decrypt drone flight logs and store them for future use.
- Developed drone software for autonomously flying and counting cars in a parking lot using object detection models (YOLOV4).
- Developed an autonomous **plant classification drone** for a client using DJI's SDK.
- · Created an image stitching server for aerial photos using Golang and an OpenDroneMap docker container.
- Learned Kotlin and the Jetpack Compose Framework.
- Programmed a transit application (ETA Detroit) for the locals of the city of Detroit.
- · Collaborated on projects with teammates extensively using online messaging platforms, project boards, and video calls.

Projects

WinParks (BorderHacks 2021)

Sep. 2021

HTTPS://DEVPOST.COM/SOFTWARE/WINPARKS

- Developed an Android app using that serves as a front-end to the City of Windsor's open database on parks and other recreational services.
- Earned a total of 1500 CAD and won first place for the people's choice award and for the optimizing community services challenge.
- · Received an opportunity to turn this idea into a business through Invest Windsor and the City of Windsor itself.
- Technologies used: Kotlin Jetpack Compose and Firebase.

Pluto (Chatbot) Sept. 2021

HTTPS://WWW.ENGDISCORD.XYZ/

- Developed a chat-bot for a University of Windsor Discord server that can be used by members to get information on professors, professor reviews, courses, and campus locations.
- Used **tensorflow and natural language processing** to create a feed-forward neural network model that can understand intents from user queries, questions, and commands.
- Technologies used: python, discord.py, pandas, tensorflow, nlp-toolkit, text-blob, feed-forward neural network

Extracurricular Activities

IEEE Student Branch Windsor, Ontario

VICE CHAIR

Sep. 2020 - Apr. 2021

• Practiced **responsibility and leadership** by directing STEM related events for the student branch (ex. Python workshop) which helped to improve the organization's presence at UWindsor.

Windsor Robotics Club Windsor, Ontario

Co-Founder and Member

• Co-founded the University of Windsor's first ever Robotics club.

Nov. 2019 - Present

• Co-lounded the oniversity of windsor's first eve

Actively participated in club activities.

Honors & Awards

Sept. 2021 Winner, BorderHacks 2021 (Hackathon)

Windsor, Ontario

Dec. 2020 Winner, Windsor Engineering Competition (Programming Section)

Windsor, Ontario

Feb. 2017 **Winner**, Border-City Hacks

Windsor, Ontario