

Dylan MacLeod

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EDUCATION

Ontario Tech University

Ontario, CA

Bachelor of Science in Computer Science

April 2027

- President's List and Honour Roll Student
- Learnt C++, Python, Java, x86

Anderson CVI

Ontario, CA

Highschool

June 2023

- Honour Roll Student
- Fundamentals in Python, Java and HTML/CSS

EXPERIENCE

CarSpotters Website Developer

June 2024 – August 2024

Fullstack Developer

- Allows for multiple messages, customization and other features
- Developed a full-stack web application using Websockets, RESTful API, MongoDB and more
- Explored how to store, manage and maintain real-time data from users
- Dealt with hosting and making use of APIs to bring numerous features

PROJECTS

Chatroom + AI Implementation | *JS, React, MongoDB, Google Generative AI*

July 2024 – Present

- Developed a full-stack web application using with Node.JS serving a REST API with React as the frontend, allowing for communication between people and an AI bot
- Explored how to implement real-time messaging features for a dynamic experience
- Made use of Imgur API, NodeMailer and Passport JS

CarSpotters Website | *JS, HTML/CSS, MongoDB*

July 2024 – August 2024

- Developed a full-stack social media web application with Node.JS that allows users to share photos among other car enthusiasts within the community
- Implements real-time elements to share information in real time, such as updating photos, posts, comments and more, making use of websockets
- Made use of Imgur API, Geocoding, Passport JS

Weather Telemetry Reader | *C++/Arduino IDE, Hardware Components*

May 2023 – June 2023

- Developed a hardware project that reads real-time data collected by the weather sensor, Data is tracked on the onboard Arduino storage, which can be processed later on
- Data was stored and managed efficiently to allow for clear representation
- Explored how to use programming and hardware components in a single project

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, Express, FLTK

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Replit, Eclipse

Libraries: pandas, NumPy, Matplotlib, Passport JS, Salt/Hashing, w3lib, ssl, gzip, socket