

Dillon Bordeleau

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Core Skills/Technologies

Python, Java, C/C++, TypeScript/JavaScript, React, Node.js, Next.js, SQL/PostgreSQL, Git, Docker

Projects

[C++ Autograding Server](https://github.com/DBordeleau/cpp_autograder)

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- This is a submission server that autogrades C++ programming assignments. The project unzips student submissions and compiles + tests them in isolated Docker containers. The server admin can define multiple assignments with custom test cases and autograding criteria for each. Assignments are graded instantly with results provided to students via a simple front-end. Grading results persist in a local SQLite database. The server admin can configure assignments/tests/autograders using a config file or with CRUD operations via the web interface. I built this project with **C++, Python, FastAPI, SQLite and Docker**.

[Fantasy Hockey Database App](https://yofhl-db.vercel.app/)

<https://yofhl-db.vercel.app/>

- Full stack application developed with **TypeScript, React, Next.js and PostgreSQL**. The app manages and displays historical fantasy hockey league data in ways that the native fantasy platform we use (Fantrax) cannot. I designed and implemented the database schema myself. Requests are processed via dynamic URLs using the Next.js app router. Heavily inspired by Hockeydb.com

[Face Mask Prediction AI](https://face-mask-detection-qzwb.onrender.com/)

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- Two phase project using a convolutional neural network (CNN) to predict whether an individual in a photo is wearing a face mask. I trained the model using **PyTorch**. In the second phase of the project I built an API and frontend using **flask** and deployed a web app so users could request predictions from the model.

Work Experience

Support Specialist, Shopify – Ottawa, ON/Remote

January 2020 – May 2023

- Served in a tier 2 support role providing advanced assistants to Shopify merchants outside of the scope of general support.
- Chosen to participate in a POS success initiative that helped raise net-promoter scores (NPS) by more than 20% and overall customer-satisfaction (CSAT) with the POS by more than 20%.
- Provided world class support to Shopify clients by collaborating cross-functionally with developers, technical teams and Shopify partners to resolve technical problems with the e-commerce platform, POS app and retail hardware. Maintained above 90% customer satisfaction in my interactions.

Education

Carleton University – BSc in Computer Science

December 2026 (Expected)

GPA: 3.9/4.0

Publication: *Loss of glutamatergic signalling from MCH neurons reduced anxiety-like behaviours in novel environments.*

Journal of Neuroendocrinology, 35(1) | <https://doi.org/10.1111/jne.13222>

Sankhe, Bordeleau, Alfonso, Wittman & Chee (2022)