# Dillon Bordeleau

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## Core Skills/Technologies

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

## Projects

**CPU Scheduling Simulator** https://cpu-scheduler-sim.vercel.app/

- This is a web app that allows users to define processes (burst time, priority, arrival time) and simulate different CPU scheduling algorithms. The app supports first come first served, shortest job first, shortest time remaining first, preemptive priority and round robin simulations. I built the core scheduling engine in **Java** and created an API using **Spring Boot** to connect the engine to a **React** frontend. The backend and frontend are deployed separately. The simulation calculates turnaround time and waiting time for all processes, as well as the number of context switches. I made this project to deepen my understanding of OS concepts and to use as a study aid for my 3rd year operating systems class.

**C++ Autograding Server** https://github.com/DBordeleau/cpp_autograder

- 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/

- 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

## 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)