

# BRADLEY BORATTO

Windsor, Canada

Available for any start date

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## EDUCATION

### University of Windsor

September 2023 – December 2026

Bachelor of Computer Science, Honours

Windsor, Ontario

- Courses include Calculus 1/2, C 1/2, Object-Oriented Programming, and Computer Architecture

## EXPERIENCE

### Optimotive Technologies

January 2023 – May 2023

Robot Pit Crew Intern

Windsor, Ontario

- Primary engineer of an industrial cleaning robot prototype, involved in all aspects of development including conceptualization, programming, fabrication, and electronics
- Prototyped and programmed electronic components (e.x. servos, relays) in Python, on Linux
- Reverse engineered and interfaced third-party systems (e.x. motor controllers over CAN bus)

## EXTRACURRICULAR

### Haletale

January 2024 –

Software Developer (Contract)

Remote

- Planned and developed real estate dashboard components using React and Ruby on Rails

### University of Windsor

October 2023 – December 2023

Software Developer (Research Assistant)

Windsor, Ontario

- Developed HTTP/REST server in C++ (targeting ESP32 microcontrollers) to host sensor data dashboard
- Developed dashboard in React, including realtime graphing and data export
- Worked in the MicroNano mechatronics research lab under Dr. Jalal Ahamed

### Knight Vision Robotics

January 2019 – June 2023

Team Member

Windsor, Ontario

- Became head of programming subteam as well as member of other subteams
- Created CAD models in Fusion 360 and manufactured physical systems along with the engineering team and professional mentors
- Developed a computer vision program using Python and Java for autonomous game piece manipulation using GRIP/OpenCV

## PROJECTS

### BlazeGuard | React, Node.js

- Wildfire detection and reporting app concept developed for NASA Space Apps hackathon
- React frontend and Node.js backend running deep learning fire detection service
- First place winner at local event

### boratto.ca/winzard | React, MongoDB, Go, Python

- Tool to generate optimized university timetables
- Course availability data pulled from University website using Python scraper, uploaded to MongoDB database, then served to React frontend through Go backend server

### boratto.ca | NGINX, Linux, Various Technologies

- Hosts many services such as VPN and website, primarily running on Linux and routed through NGINX

## TECHNICAL SKILLS

**Languages:** C, C++, C#, Go, Python, HTML, CSS, JavaScript, Java, Bash

**Developer Tools:** React, Bulma, Tailwind, Firebase, Unity, MongoDB

**Other:** Fusion 360, 3D Printing, Linux, Embedded Systems, Arduino, ESP32