



Languages



Technologies & Tools

Node.js Express.js MongoDB Bootstrap Git

Projects

Virtual Yearbook

- Developed a web app for signing digital yearbook pages amid COVID-19
- Built backend with Node.js and Express.js, featuring MongoDB database for storing yearbook pages
- Established a REST API that supports CRUD operations and shareable links
- Implemented undo/redo, customizable brush, image export in JavaScript

Braille Printer

- Constructed proof of concept for affordable braille printer, costing 6x less than commercial options
- Designed braille printing mechanism and programmed a hardware API in Python
- Collaborated remotely with a team of 6 students using Git version control

5x5 Rubik's Cube Solving Robot

- Engineered and programmed an original robot that solves the 5x5 cube
- Wrote a Python script to translate and execute solutions generated by an open-source algorithm
- Employed OpenCV image recognition to scan the faces of the cube

Experience

Graphic Designer | HID Technologies

Sept - Dec 2020

- Designed logo, brand identity, illustrations, packaging for ergonomic keyboard company
- Gained experience working with clients in a professional manner

Math Tutor | Trusty Tutoring

April – Aug 2020

- Tutored Grade 12 IB math topics such as combinatorics while facilitating individual learning styles
- Enhanced speaking and listening skills through presenting concepts in a clear and engaging way

Event assistant | Streetsville BIA

2015 - 2018

- Assisted with organizing and managing events such as Canada Day, Christmas, Bread & Honey Festival
- Strengthened leadership and teamwork skills by setting up and running arts & crafts stations with a team

Achievements

Top 4% | Waterloo Canadian Computing Competition 2020 Senior Level

School Champion | Waterloo Canadian Senior Mathematics Contest 2018

First Place in school board | ECOO Programming Contest 2020

Education

Bachelor of Software Engineering | University of Waterloo

2020 - 2025

Interests

Competitive speedcubing, robotics, composing music