

ETHAN PRONEV

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Experience

Organizer and Judge – HackTheBlob

2019-2020

- Organized and hosted an online hackathon with over 70 participants
- Collected various data throughout Erindale SS (temperature, humidity, noise level, Wi-Fi signal strength)
- Participants were tasked to use the data to improve the lives of Erindale students

President – Erindale SS Computer Science Club

2019-2020

- Created PowerPoint lessons and gave weekly lectures about various competitive programming topics (dynamic programming, graph theory, data structures)
- Assigned practice problems to students and wrote reference solutions in C++

Ski Instructor – Hockley Valley Resort

2020

- Created eight-week lesson plans and instructed kids and adults of various ability levels

Awards & Achievements

University of Waterloo Faculty of Mathematics Entrance Scholarship (\$12,500)

2020

Group 3 (Top 90 in Canada) – Canadian Computing Competition

2020

First Place in Peel Region – ECOO-CS Programming Competition

2019

Projects

SplitStub

2020-Present

- Budgeting program that allows users to scan receipts, track spending in different categories, and divide items among multiple people
- Used Pytesseract for optical character recognition and a Node.js server to store user info
- Technologies used: **Python (Pytesseract), Javascript (Node.js), Git, HTML, CSS**

Skii.tech (nwHacks 2020)

2020

- Worked on a team of three to design an augmented reality heads-up display for improving the alpine skiing experience
- Used Python to parse geographical data including ski trails, elevation, and avalanche forecasts
- Used C++ to design pathfinding algorithms such as shortest path and all paths
- Technologies used: **C++, Python, ARKit, Javascript (Node.js), Git**

Extended Essay – Graph Colouring

2018-2020

- Did research and wrote a paper on the efficiency of several graph colouring algorithms for solving different scheduling problems

Education

University of Waterloo – Computer Science Co-op

2020-Present

- 98.7% faculty average

International Baccalaureate – Erindale Secondary School

2016-2020

- 98.5% grade 12 top six average

Skills

- **Programming Languages:** C/C++, Python, JavaScript, HTML, CSS, Scheme, LaTeX
- **Tools & Technologies:** Node.js, Git, Office