ETHAN PRONEV

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Skills

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

Projects

Skii.tech (nwHacks 2020)   **2020**
- o Collaborated on the design of an augmented reality heads-up display for improving the alpine skiing experience
- o Wrote Python scripts to parse geographical data: ski trails, elevation, and avalanche forecasts
- o Designed C++ pathfinding algorithms such as shortest path and all paths

SplitStub   **2020**
- o Created a budgeting program that allows users to scan receipts, track spending in different categories, and divide items among multiple people
- o Used Pytesseract for optical character recognition and a Node.js server to store user info

Extended Essay – Graph Colouring   **2018-2020**
- o Performed extensive research and wrote a paper on the efficiency of several graph colouring algorithms for solving different scheduling problems

Experience

President – Erindale SS Computer Science Club   **2019-2020**
- o Constructed PowerPoint lessons and gave weekly lectures about various competitive programming topics: dynamic programming, graph theory, data structures
- o Assigned practice problems to students and wrote reference solutions in C++

Organizer and Judge – HackTheBlob   **2019-2020**
- o Co-hosted an online hackathon where over 70 participants were tasked with using data to improve student life at Erindale Secondary School
- o Collected various data points throughout the school property: temperature, humidity, noise level, Wi-Fi signal strength
- o Evaluated submissions and awarded prizes

Ski Instructor – Hockley Valley Resort   **2020**
- o Created eight-week lesson plans and instructed kids and adults of various ability levels

Education

University of Waterloo – Computer Science Co-op   **2020-Present**
- o 98.7% faculty average

Erindale Secondary School – International Baccalaureate   **2016-2020**
- o 98.5% grade 12 top six average

Awards & Achievements

University of Waterloo Faculty of Mathematics Entrance Scholarship (25% of tuition)   **2020**

Group 3 (Top 90 in Canada) – Canadian Computing Competition   **2020**

First Place in Peel Region – ECOO-CS Programming Competition   **2019**