

# ETHAN PRONEV

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## Skills

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

## Projects

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- SplitStub** 2020
- Created a 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
- Skii.tech (nwHacks 2020)** 2020
- Collaborated on the design of an augmented reality heads-up display for improving the alpine skiing experience
  - Wrote Python scripts to parse geographical data: ski trails, elevation, and avalanche forecasts
  - Designed C++ pathfinding algorithms such as shortest path and all paths
- Extended Essay – Graph Colouring** 2018-2020
- Performed extensive research and wrote a paper on the efficiency of several graph colouring algorithms for solving different scheduling problems

## Experience

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

## Education

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- University of Waterloo – Computer Science Co-op** 2020-Present
- 98.7% faculty average
- Erindale Secondary School – International Baccalaureate** 2016-2020
- 98.5% grade 12 top six average

## Awards & Achievements

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- 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