

Ethan Pronev

🌐 ethanpronev.com • 🐾 github.com/ethan-pronev • 💬 linkedin.com/in/ethan-pronev/
✉️ ethan.pronev@uwaterloo.ca • ☎️ 647-548-9902

Skills

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

Projects

SKII – Augmented Reality Skiing Maps

2020

- Co-created an augmented reality heads-up display application for alpine skiing
- Built with an ARKit client supported by a Node.js backend
- Wrote Python scripts to parse 20,000+ geographical data points
- Designed pathfinding algorithms in C++: modified shortest path and depth-first traversal

SplitStub

2020-Present

- Budgeting program built in Python and Node.js in which users can scan receipts and divide costs among multiple people
- Employed Tesseract deep-learning to read and mesh characters into selectable fields

Extended Essay – Graph Colouring

2018-2020

- Performed extensive research and wrote a 4000-word paper on the efficiency of several graph colouring algorithms for solving various scheduling/optimization problems

Experience

President – Erindale SS Computer Science Club

2019-2020

- Gave weekly lectures to 30+ students about various competitive programming topics: dynamic programming, graph theory, data structures
- Assigned practice problems to students and wrote reference solutions in C++

Organizer and Judge – HackTheBlob

2019-2020

- Co-hosted an online hackathon where 70+ participants were tasked with using data to improve student life at Erindale Secondary School
- Reached out to potential sponsors and accumulated \$2000+ in prizes
- Evaluated submissions and awarded prizes

Ski Instructor – Hockley Valley Resort

2020

- Created eight-week lesson plans and instructed kids and adults of various ability levels
- Commended for demonstrating attention to detail and effective communication

Education

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

Faculty of Mathematics Entrance Scholarship (25% of tuition)

2020

University of Waterloo

Group 3 (Top 80 in Canada)

2020

Canadian Computing Competition

First Place in Peel Region

2019

ECOO-CS Programming Competition

Interests

Piano (13 years, RCM Level 10) • Skiing (14 years, CSIA certified) • Mountain Biking • Speed-solving Rubik's Cubes