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   2020-Present
Computer Science Co-op
- 98.7% faculty average

Erindale Secondary School   2016-2020
International Baccalaureate
- 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**