

# Freeman Cheng

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CONTACT INFORMATION freeman.cheng@mail.utoronto.ca freemancheng.com +1 647-879-6108 github.com/peelstnac

EDUCATION **University of Toronto - St. George Campus**  
Computer Science (CMP1) Class of 2024

**International Baccalaureate Diploma**  
Erindale Secondary School Class of 2020

EMPLOYMENT **Triway Education**  
Math Contest Instructor Jul 2019 - Oct 2019

- Delivered lessons to help high school student prepare for the Euclid Math Contest.
- Topics covered include invariants and monovariants, pigeonhole principle, two-player games, basic combinatorics, divisibility, polynomials (Vieta's Theorem, Newtons sum), functional equations, trigonometry, etc.

PROJECTS **COMB**  
github.com/peelstnac/COMB

- Built a packet streamer which streams data to a central dashboard, making it easy to manage multiple systems. Built using MongoDB, Node, Express, React/Redux, JavaScript, C, and SaSS. Deployed with AWS EC2 and Travis CI.

**BlockOJ**  
github.com/peelstnac/BlockOJ

- Hack The Six 2020 Mentor's Choice Award. Created an online judge using Google's Blockly library that teaches children how to code. Users can verify their programming solutions with our server-side judge. Implemented with Postgresql, JavaScript, C, Node, Express, and SaSS. Deployed with AWS EC2.

**sm-integral**  
github.com/peelstnac/sm-integral

- Published a npm package to compute definite and improper integrals of JavaScript functions with Romberg Integration. Used unit testing frameworks Mocha/Chai with Travis CI to guarantee correctness of code.

**ESSMT**  
essmt.ca

- Worked with a small team to organize a math competition with over 50 participants. Created the competition website using Bluma, acquired over \$2200 in prizes from sponsors, and set the competition problems.

**score**  
github.com/peelstnac/score-game

- Reverse engineering game. Players are to leverage their number theory knowledge to guess scoring algorithm.

AWARDS AND SCHOLARSHIPS University of Waterloo Mathematics National Scholarship (\$18000, declined)  
Canadian Math Olympiad 2020  
52nd Place / Top 0.5% on the 2019 Canadian Senior Math Contest