Arnav Kumar

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skills

Languages

Programming - JavaScript, C#, TIBasic
Scripting - Python, R
Markup - LaTeX, HTML, CSS
Linguistics - English, Hindi, Spanish

Mathematics

Pure - Number Theory, Combinatorics, Algebras, Geometry, Functional Equations, Calculus
Applied - Statistics, Probability, Economics, Physical Sciences

Specialities

Innovation - Possess excellent critical thinking and problem solving skills
Adaptability - Efficiently and quickly understand materials and instructions presented to me. Make best use of resources I am given.
Relations - Actively listen and maintain engaged throughout exchanges. Collaborate well with peers.

education

2022 - Graduation from Webber Academy
2019 - Completed a university level proofs course
2019/18 - Attended the invitational CMS math camp
2018 - Scored 5 in AP Statistics

projects

arnavcs.github.io - Made a personal website that displays all the web projects I have made.
Inferior Pentagon - Coded Inferior Pentagon, a web based game, with unity
p5.js - Programmed simulations for mathematical graphs using p5.js
Pell's Equation - Analyzed Pell's equation and found a novel solution for a modified form.
Mathematics Formulas - Creating a compendium of my works and interesting formulas in LaTeX.

extracurricular

Leadership - Active member of student union. Often lecture at the school's math club.
Arts - Paint in free time. Practice flute and vocal music.

accomplishments

Math Competitions

2020 -

- Ranked 11th in grade 10 for AMC12, AIME qualifier
- First in AHSMC part I, 10th for part II
- Top 0.5% in Fermat
- Top 0.5% in CSMC

2019 -

- Scored 99% on math 30
- Team Captain for one of the Canadian IMC teams hosted in Durban. Won bronze and silver.
- Ranked 2nd in the world in Caribou Contest
- Received the Robert Barrington Leigh Memorial Prize in the AHSMC
- Placed 1st in Canada for Fryer
- Ranked 7th in Canada for CIMC
- Placed top 1% in Fermat
- Won top 1.5% in Euclid
- Placed 8th in grade 10 for COMC and won silver

2018 -

- Won merit in the IMC hosted in Burgas
- Top 1% in CIMC
- 10th in Canada in Pascal
- 23rd in Canada in Fryer
- Alberta gold medal for grade level in COMC

2017 -

- Won gold for grade level in COMC

2016 -

- Won gold for grade level in COMC

Science

2020 -

- Ranked 1st in Alberta for the Michael Smith Science Challenge

2019 -

- Won gold and PIMS Award for Senior Level Project for an innovative solution to modified Pell's equation

2016 -

- Won gold and PIMS Award for Junior Level Project for analysis of the Chinese Postman Problem