

# Khush Negandhi

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## Summary

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Motivated secondary school student, who has been involved in a variety of coursework, both education and extra curricular activities, in multi-cultural environments. Highly interested in Mathematics and Physics. Extended exposure in the pure mathematics field by partaking in the University of Toronto Math Mentorship program. Has a positive outlook in every situation and driven for self learning, who would like to pursue a double major in Pure Mathematics and Physics after high school.

## Education, Training and Activities

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### Grade 11

RICHMOND HILL HILL SCHOOL

Richmond Hill, ON

Sep 2019 - Current

- Coursework in Gifted Math, Gifted Science and Gifted Computer Science
- Coursework in English, French, Spanish and Geography
- Member of the Physics and Math Clubs
- Playing the Tuba, played twice in Ontario Band Association festival and also in Sounds of Spring concert

### Competitions

- Issac Newton Physics Competition
- Pascal Math Competition
- UTM(solo and team); 4th place in the team competition
- AMC 10 (American Math Competition)
- COMC (Canadian Open Math Competition)
- Ken Ken International Competition

### Math Mentorship

UNIVERSITY OF TORONTO

Toronto, ON

Jan 2021 - May 2021

- Preparation for math research
- Giving an overview of what to expect in the field
- Started with building Banach spaces and also built Lebesgue integration and Measure Theory from there to achieve the same

### Math Circles

FIELDS INSTITUTE

Toronto, ON

Sep 2019 - Current

- Worked on problems from many well known competitions; Putnam, IMO, USAJMO
- Developing math skills for higher education; proof writing skills, logic and how to approach hard problems

### Academic Self Learning

- Calculus: Calculus by Michael Spivak, A First Course in Calculus by Serge Lang and Calculus by Tom M. Apostol
- Logic, Set Theory and Proof Writing: Naive Set Theory by Paul R. Halmos, Book of Proof by Richard H. Hammack
- Geometry: Euclid's Elements by Euclid and Introduction to Geometry by Richard Rusczyk
- Counting and Probability: Introduction to Counting and Probability by David Patrick
- Other: Followed the MIT open course ware for Calculus, Foundations and Fundamentals of Mathematics course MAT2362 in the University of Ottawa, Art of Problem Solving by Sandor Lehoczky and Richard Rusczyk

### Activities

- Cricket Training; many awards and tournaments won
- Advanced Swimming; Bronze Cross, First Aid & CPR/AED
- Piano with The Royal Conservatory of Music completed Level 5
- Member of various school clubs

### Volunteering

- Helped with training children in playing cricket
- Aided in the support role(handing out water, cleaning up after the race, etc.) in a marathon for children with mental illness
- Helped in teaching children how to the piano

## Skills

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**Programming Languages** Python, Latex, Scartch, Java, Coq

**Microsoft Office** Word, Excel, Powerpoint

**Language** Bilingual: English and Hindi; Learning Spanish and French

**Social Media-Connectivity tools** Zoom, Google hangouts, Facebook, Instagram

## Projects

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### ROBOTICS COMPETITION

- Built a robot using Arduino and C++
- Was an A.I enabled robot that was capable of resolving complex mazes quickly and following black colored lines

### BUILT A WEBSITE FROM SCRATCH

- The objective was to build a website to sell scented candles.
- Languages used: HTML, JavaScript, JSON

## Work Experiences

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### Cashier

*Toronto, Canada*

#### MUMBAI EXPRESS

*Jun 2020 - Jul 2020*

- Operated the cash register; Processing credit card payments, accepting cash payments and using the POS system for transactions
- Communication with customers; Maintaining knowledge of the menu and sales policies, taking orders and passing the information to the kitchen
- Assisted other restaurant staff when required

### Newspaper Delivery Boy

*Toronto, Canada*

#### METROLAND MEDIA

*2018 - 2020*

- Newspaper segregating, bundling and delivery within Markham and Richmond Hill  $\approx$  200 houses weekly

### Tutor

*Dubai, U.A.E*

#### JSS INTERNATIONAL SCHOOL

*2013 - 2016*

- Tutored Grade 4 students - Mathematics