

# Tharun Venkatesh

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## Objective

An extremely dedicated, hardworking grade 12 student in the Challenge Program at Mount Doug Secondary School with teaching experience gained through peer tutoring seeking a position as a tutor at Kumon.

## Education

- **Dogwood Diploma** - Mount Douglas Secondary School, Victoria, BC, 2020-Present

## Volunteer Experience

- **Science Venture** - University of Victoria, 160 hours worked as a Junior Counsellor primarily teaching coding, July 2022
- **Tamil Teacher** - Vancouver Island Tamil Sangam, 30 hours worked, Present
- **Math Challengers Coach** - Mount Doug High School, 30 hours as Junior and Senior Coach, Present
- **Computer Science 11/12 Teaching Assistant** - Mount Douglas Secondary School, 120 hours worked
- **Basketball Coach** - Champions Academy/Arbutus Global Middle School, 100 hours as a coach
- **School District Representative** - Mount Doug High School, 20 hours as a representative on the student board
- **Peer Tutoring** - Mount Doug High School, 50 hours worked, June 2023

## Awards and Achievements

- **Honor Roll** - Straight A student, 2019 - 2023
- **Top 10 in Math Challengers Competition** - 9th on the Island, 2022
- **Scored 112, 103, and 107 in the Pascal, Cayley, and Fermat Competitions** - 2021-2023
- **Represented my school at the Math Challengers Contest** - 2019-2022

## Certifications

- Certificate of Distinction in the Canadian Intermediate Mathematics Contest (CIMC), University of Waterloo - **Ranked in the Top 25% at the CIMC, October 2021**
- Certificate of Distinction in the Fermat Contest, University of Waterloo, **April 2023**

- Certificate of Participation in the CSMC, **November 2022, November 2023**
- Certificate of Distinction in the COMC, **October 2022**
- Certificate of Participation in the Cayley Contest, **June 2022**
- Certificate of Participation in the Euclid Contest, **May 2023**
- School Service Award, **June 2023**

## Skills and Abilities

- Exceptional Interpersonal and teaching skills
- Excellent oral and written communication skills
- Outstanding leadership and organization skills
- Advanced programming and coding skills

## Extra-Curricular

- **Basketball** - Competitive basketball with many different clubs, 2015 - Present
- **Singing** - Various local community events, 2015 - Present

## References

Mr. Ted Meldrum, Teacher

Mount Douglas Secondary School

[tmeldrum@sd61.bc.ca](mailto:tmeldrum@sd61.bc.ca)

Mr. Neal Johnson, Teacher

Mount Douglas Secondary School

[njohnson@sd61.bc.ca](mailto:njohnson@sd61.bc.ca)

## Side Projects

- **Monkey Run (game)** - A game in which you control a determined monkey who attempts to reach forested freedom by running away from his zoo captors! With 4 levels of increasing difficulty, waves of zookeepers will try to stop you, can you be free or will you be caught?
- **GOATBALL 1.0 (Game)** - A game in which you and your friend can each control one of your favorite superstars Lionel Messi, Cristiano Ronaldo, or Neymar Junior as you face off in an exciting game of football with all rules built in!
- **Albert and Simon's Adventure (game)** - A grid-style game where on your path to reach freedom with your rider you need to navigate through enemies, obstacles, and challenges! With 5 different difficulties and 21 different levels of increasing difficulty there's no shortage of challenge, so will you take your rider to freedom or will you perish along the way?

- **Pong (game)** - Simplicity is heaven. Take down your friends in a lovable retro game where you can use powerups on an increasingly faster ball to show your friends who's better!
- **Friends of Friends** - An algorithm to determine the degree of separation between people in a map of friends!
- **TutorMD Website** - I created a website in which tutors can create an account (username and password), select the courses they'd like to teach,
- **Grades Calculator** - Calculates the grades of various students depending on numerous predetermined restrictions made by my teacher
- **Address Book (Object Oriented)** - Stores address labels of how many ever people you want! It can be formatted. sort, add, and remove them alongside and much more!
- **Caesar Cipher Maker** - I wrote a program that creates a random Ceasar cipher (it generates a random number between 1 and 25 for the shift) for a text message.
- **Caesar Cipher Breaker** - I wrote a program that breaks the encryption code for a Ceasar cipher message. It then displays the top 3 possible translations of the message in the console ranked first to third. The first is the top-ranked solution.
- **Optimized Knapsack Problem** - a recursive algorithm that determines the optimized grocery bag from a set of groceries under a certain max weight!
- **ChangeOneLetter Game** - A game in which one player and a computer player or two players face off to try to reach a goal word from a start word by taking turns changing just one letter at a time! Only four-letter words are allowed!
- **Route Finding System (RFS)** - A program that can determine the cheapest, shortest, and least stops route amongst any map of Bike Stations, Truck Depots, and Airports!

## Appendix A - List of Grades from 9 - 12

S.No	Subject	Grades
1	Socials 9 Challenge	97
2	English 9 Challenge	92
3	Science 9 Challenge	96
4	Physical Education (PE) - 9	93

5	Math 9 Challenge	99
6	French 9	96
7	Art 9	92
8	ICT 9/10	95
9	Socials 10 Challenge	98
10	Literary 10 Challenge	97
11	Science 10 Challenge	95
12	Physical Education (PE) -10	95
13	French 10	95
14	Computer Science 11	91
15	Math 10 Challenge	99
16	Art 10	96
17	Career Life Education (CLE) 10	99
18	Socials 11 Challenge	95
19	English 11 Challenge	96
20	French 11	94
21	Computer Science 12	92
22	Math 11 Honors	97
23	Chemistry 11	92
24	AP Statistics	100
25	Physics 11	96
26	Peer Tutoring 11	98
27	Statistics 12	100
28	AP Physics	94
29	Literary Studies 12	99
30	Physics 12	94
31	AP English	TBA
32	AP Computer Science	TBA
33	Pre-Calculus 12 Honors	99

34	AP Calculus	TBA
35	Calculus 12	TBA
36	Chemistry 12	TBA
37	Career Life Connections (CLC)	TBA
38	English Studies 12	TBA

