

# Tharun Venkatesh

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## EDUCATION

### University of Waterloo

Waterloo, ON

*Candidate for Honors Computer Science with Co-op*

*Sep. 2024 - Present*

- UWaterloo President's Scholarship of Distinction — 3.92 GPA — ID: 21129887
- Relevant Courses: AP Computer Science, Designing Functional Programs (Advanced Version), Elementary Algorithm Design and Data Abstraction, Linear Algebra 1 for Honours Mathematics

## SKILLS

**Wide-ranging technical proficiency:** Java, Python, C, HTML, CSS, PHP, Racket, Linux, JavaScript, Bash.

**Advanced data analysis Skills:** Experience in data cleaning, processing, and algorithmic analysis demonstrated through sentiment analysis research at Santa Clara University.

**Recognized diligent worker:** BC Excellence Award, School Service Award, BC District Award for Community Service, Academic Honor Roll, and high placements in math contests.

**Leadership and Interpersonal Skills:** Proven ability to teach and manage STEM education for diverse age groups, including programming and mathematics.

## RELEVANT WORK EXPERIENCE

### Data Science Research Fellow

September 2024 – Present

*Santa Clara University*

*Santa Clara, CA*

- Performed data cleaning with Python libraries to prepare social media data about ChatGPT therapy for analysis.
- Conducted in-depth data analysis to uncover patterns and anomalies, to provide meaningful insights.
- Tested and documented model proficiency with scraped datasets, simulating QA testing workflows.

### AI Fellow

July 2024 – August 2024

*Headstarter*

*Remote*

- Learned the basics of NodeJS, Firebase, React, Terminal, and VSCode through numerous assignments.

### Teaching Assistant (TA)

September 2023 – January 2024

*Mount Douglas Secondary School*

*Victoria, BC*

- Supported Computer Science 11/12 students learning object-oriented programming, Java and Python.
- Assisted students one-on-one in debugging and optimizing code to improve programming skills.
- Facilitated in-class exercises and lab sessions, bridging theory with real-world coding challenges.

### Junior Counsellor

July 2022 – July 2023

*University of Victoria*

*Victoria, BC*

- Led coding workshops for middle school students, applying real-world software concepts.
- Taught foundational coding in Scratch and web development with HTML/CSS.
- Guided students in debugging and problem-solving through project-based learning.

## TOP PROJECTS - [HTTPS://GITHUB.COM/KINGBRONFAN23/MY-PROJECTS](https://github.com/KingBronFan23/My-Projects)

### TutorMD Website | *HTML, CSS, PHP, JavaScript*

June 2023

- A website in which tutors can log in, create a profile with a profile picture and description, and choose which courses they can tutor so that a student can find an appropriate tutor

### Monkey Run (game) | *Java*

March 2023

- Control a monkey who attempts to reach freedom by running away from captors! With 4 levels of increasing difficulty, zookeepers will try to stop you, will you be caught?

### Student Timetable Project | *Java*

June 2024

- An algorithm to assign students a timetable of courses based on their requests
- 80 percent of total course requests granted — 70 percent of students received at least 6/8 requests

### GOATBALL 1.0 (Game) | *Java*

June 2024

- 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!