

# Tushar Muralidharan

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## Curriculum Vitae

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### Education

- 2021–2024 **Bachelor of Philosophy (Honours) - Science**, *The Australian National University*.  
Specialized in Mathematics
- 2020 **Dual Enrolment**, *Princeton University*.  
Completed COS 226 – Algorithms and Data Structures
- 2016–2020 **High School Diploma**, *Montgomery High School*, GPA – 4.0 W.

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### Experience

#### Vocational

- 2023 **Chess Coach**, Canberra Academy of Chess.  
Taught Chess classes for primary school children.
- 2022 **Teaching Assistant**, The Australian National University.  
Taught workshops and marked assignments for Foundations of Computing (COMP1600) and Logic (COMP2620).
- 2019 **Developer Intern**, PHARMVISTA, East Hanover.  
Developed a series of webpages for marketing a line of organic melatonin gummies, managed web hosting services, liaised with various team members for documentation.

Detailed achievements:

- Published website for Melat-8® gummies
- Worked on website spam-prevention measures including CAPTCHA
- Restructured website organization system in WebHost Manager and cPanel
- Recovered from unexpected data breach

#### Miscellaneous

- 2019–2020 **Programmer**, FIRST ROBOTICS TEAM 1403, Cougar Robotics.  
Designed computer vision system for our FIRST World Championship robot, cooperated with other sub-teams, managed lower team of new students, worked with strict competition format and deadlines. Allowed me to exhibit analytical skills and teamwork.
- 2019–2020 **Treasurer**, *Computer Science Club*, Montgomery High School.  
Taught workshops in Java and Python, led team-building activities to foster a welcoming community, managed club activities and schedules, worked with outreach to find speakers and partners.
- 2016 **Technology Support Volunteer**, *Wayne Public Library*.  
Provided one-on-one technology help to elderly individuals in the community. Helped to solve problems with mobile devices, laptops, and watches, and aided with dexterity problems.

## Awards

- 2022 First Place in ANU Chess Club Tournament
- 2022 ANU Open Division Team for Australian University Chess League
- 2021 Fourth Place in ASD-ANU Co-Lab Capture the Flag Competition
- 2020 National AP Scholar
- 2019 AP Scholar with Distinction
- 2019 National Merit Scholarship Commended Student
- 2018 Best Website – Junior Achievement of New Jersey Hackathon
- 2016 Top 500 Rubik's Cube Average in Australia – World Cube Association
- 2016 Presidential Academic/High Achievers Award
- 2016 Outstanding Academic Achievement

## Computer skills

- Basic C, C#, Adobe Photoshop
- Intermediate PYTHON, C++,  $\text{\LaTeX}$ , Microsoft Windows, Word, Excel
- Advanced NODE.JS, JAVA, HTML

## Communication Skills

- 2018 Oral Presentation at the FBLA State Leadership Conference
- 2018 Hosted the MontyHacks Hackathon as Staff
- 2018 Taught at the Annual Kids' Tech Night at My School

## Languages

- English **First Language**
- Tamil **Intermediate**
- Spanish **Basic**

*Conversationally fluent*  
*Basic words and phrases only*

## Interests

- Piano
- Chess
- Speedcubing
- Memory Training
- Magic
- Dancing