

Rameshkumar Dhanvine

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I'm a student extremely excited about the synergy between AI and the diverse scientific disciplines. With a strong passion in math and physics, I'm currently looking for opportunities in the STEM field where I can apply my knowledge to innovate ground-breaking products alongside others. I'm also open and looking forward to contributing to R & D, research papers, aiming to make a meaningful impact on Singapore's scientific landscape by coming out with innovative and unique solutions to solve modern day problems.

EDUCATION

Temasek Junior College(IP) | Triple-Science + Geography

Singapore | **01/2020 – Present**

- GPA: 3.88/4.00
- Higher Tamil O Level Examination: Distinction
- President of Infocomm Club(IP)
- BLAH Team Technology Lead

Springdale Primary School | English, Math, Science, Tamil

Singapore | **01/2014 – 2019**

- PSLE Score: 250 (2A*(math & science) and 2A(languages))
- CCA: Thinkers' Club

Additional Courses(Extra-Curricular)

- AWS Data Science Accelerator Programme 2023
- Swift Accelerator Programme 2021

Singapore | **11/2022 – 08/2023**

Singapore | **01/2021 – 01/2022**

EXPERIENCE

SHINE Children & Youth Services | Intern

- Led and conducted events for the elderly such as Digital Photography Sessions
- Facilitated and engaged seniors in cognitive games sessions
- Leadership Development & Self-Development
- Done as part of TJC W.O.W Programme 2024

A*STAR Institute of High Performance Computing | Research Intern

- Research project on the project of Graph Neural Network for the Automated Design of Photonics
- Learnt about Graph Theory, Computational Electromagnetics, other mathematical notations
- Implementing Google Deepmind's MeshGraphNets Architecture

SKILLS

- | | | |
|----------------------------------|---|---|
| • Programming & AI | Skilled in Python and AI libraries, adept in ML algorithms, specialised in NLP and Computer Vision. | Worked on many projects and done courses to gain more knowledge |
| • Physics and Math (STEM) | Proficient in applying principles of physics and mathematics to solve complex problems, demonstrating strong analytical and problem-solving skills. | Participated in a few competitions and also achieved consistent As and A*s in my Math and Science subjects this year. |

- **Communication & Leadership**

Skilled in clear communication and productive discussions with peers and teachers. Experienced in guiding team projects and fostering collaboration, demonstrating strong leadership capabilities.

Held several leadership positions in school, presented in many conferences outside school on the topics of AI and Data Science and effectively communicated ideas.

Certifications

- **Machine Learning Specialization (2023)**
by Deep Learning AI and Stanford University
- **CS50x Introduction to Computer Science (2022)**
by Harvard University

VOLUNTEERING

BuildingBloCS Organisation | Administrative Lead & (Workshop Speaker + Developer)

- Admin and workshop lead and handle admin matters
- Conducted a Data Science/Analytics workshop in FOSSASIA Summit, Asia's Premier Open Technology conference
- Helped execute the BuildingBloCS June Conference 2023 where >350 students from >42 schools around Singapore participated. I was emcee, group and tech facilitator, conducted workshop and handled a bit of admin matters

Singapore Academy of Young Engineers and Scientists (SAYES) | Member

- Planning for the Qualifying round of National STEM Challenge 2024

Better.SG Organisation | Member

- Work on tech for good projects which benefit society
- Volunteered for AV and Ushering in BEACON 2023 event

AWARDS

Australian Math Competition 2022 Certificate of Credit

2nd place in Singapore Tamil Ethical Stories in Digital Era Competition

Academic Progress Award Year 3 – Temasek Junior College

INTERESTS

Coding: Code random projects during my free time. Currently learning about Graph Neural Networks and more on graph theory

AI Experimentation and Research: Currently working on a research paper with my JC friends on malware prediction in windows OS by utilising tools like Overleaf

Science and Math: Usually enjoy reading up on theories and intersection points between math and physics, particularly in the topics of quantum physics, string theory and gravitational waves in space

