Education	
Education	
 Massachusetts Institute of Technology, Cambridge, MA Candidate for Bachelor of Science in Computer Science and Engineering Candidate for Bachelor of Science in Mathematics Candidate for Minor in Physics Coursework Highlights: Algorithm Designs, ML, Quantum Computation, Statistics, Natural Language Processing, Software Design, Topology, Analysis 	June 2027 GPA: 5.0/5.0 (Sophomore)
 Sunway College, Kuala Lumpur, Malaysia Valedictorian, "Top in the World" and "Best Across Four Subjects" Award Cambridge GCE A-Levels: 4 A* SAT: 1550 IELTS: 8 Coursework: Mathematics, Further Mathematics, Physics, Economics 	December 2022
 Kuen Cheng High School (坤成中学), Kuala Lumpur, Malaysia Star Student Award in 2019 for involvement in the International Math Olympiad Malaysian Certificate of Education (SPM): 10A+, 2A Coursework: 3 Languages, Advanced Math, 3 Sciences, World History, Chinese Literature 	February 2021
Awards & Accomplishments	
 Citadel Securities 2nd Annual Quant Research Invitational – Champion (\$10000 Award) Implemented stochastic methods for algorithmic trading, particularly ETF & statistical arbitrage Simulated a M. Carlo Brownian Bridge and performed portfolio optimization for pairs-trading Presented final strategy at the new Citadel Securities headquarters in Miami 	Winter 2025
William Lowell Putnam Mathematical Competition by MAA ■ Honorable Mention (Top 100)	2023-2024
 International Mathematical Olympiad Bronze Medals (2020, 2022) and Honorable Mentions (2018, 2019, 2021) 	2018-2022
 Malaysian Physics, Computational Linguistics, and Economics Olympiads Silver and Bronze Medals 	2020-2022
 Chen Jing-Run Cup Math Contest by Xiamen University Malaysia National Champion for 4 consecutive years 	2017-2020
Experience	
 Teaching Assistant (TA) and Grader For Algorithms (6.1210), Classical Mechanics (8.011), and Real Analysis (18.100A) Hold weekly office hours and recitations for the class Use animations I coded myself to present easier visualizations Proctor and grade the final exam 	2024-
 Global Teaching Laboratory, MIT International Sci and Tech Initiative (MISTI) Trained the <i>Côte d'Ivoire</i> national team (in French) for the International Math Olympiad (IMO) 	Winter 2025

 Undergraduate Researcher, CS & AI Lab (CSAIL), MIT Self-Supervised Machine Learning Model for 3D Neurite Segmentation Design and test self-supervised ML models to process large amounts of uncurated 3D brain scan data Train models using unlabeled electron microscopy data of the human and mouse cortex 	Fall 2024 a	
 Webmaster and Actor, MIT Life on Stage Theatre (LOST) Perform for theatre and manage the club website 	2024-	
1 chorm for theatre and manage the club website		
 Undergraduate Researcher, Department of Earth, Atmospheric, and Planetary Sciences, MIT GPS/GNSS Jupyter Notebook Interface for Time Series Analysis Develop a Jupyter Notebook that allows users to utilize time position series data Integrate data from various GPS organizations into a user-friendly interface for easier access Outline patterns and correlations from time series data to understand changes of Earth's surface 	Spring and Summer 2024	
 Teaching Assistant (TA), Department of Physics, MIT TA for 8.011 (Physics I / Classical Mechanics) Help students during group activities Grade problem sets on a weekly basis 	Spring 2024	
 Undergraduate Researcher, Department of Mathematics, MIT Investigating the Motion of Pilot-Wave Walkers in a Circular Corral Study the behavior of droplets bouncing on a vibrating oil bath Demonstrate the consistency of pilot-wave dynamics with quantum mechanics Use MATLAB to model droplet dynamics and compare with experimental results 	Winter 2024	
 Youth Stem Cup 2023, Malaysia Head of Problem Selection Committee (PSC) Organize the first ever student-led national science Olympiad in Malaysia Lead the PSC to: Invite problem setters, produce the exam paper, cross-check validity etc. Successfully run the physical event with ~ 1200 participants from all over the country 	Summer 2023	
 IMO Committee Malaysia, Malaysia Trainer and Problem Selection Committee Member Train students in the IMO Selection Camp of Malaysia Write handouts and set problems for camp tests and IMO shortlist proposals 	2021-2023	
 Academic Department, Kuen Cheng High School, Malaysia Math Team Trainer, Math Presenter, Peer Learning Program Volunteer Trained and led the school team to win national first places in multiple large-scale contests Give talks and interactive presentations to foster mathematical interest Help students in academic need in math, physics and chemistry to fulfil graduation requirement 	2018-2023	
Activities & Extracurriculars		
 2024 Discover Citadel and Citadel Securities, New York Explore and learn about different roles at Citadel through various activities and networking events. 	Spring 2024	
 Life on Stage Theater (LOST), MIT Cast actor for one of the lead characters in a student-led theater play 	2024-Present	
 Swimming Club, Sunway College, Malaysia Help the committee run pool activities and teach beginners breaststroke and freestyle 	2021-2023	
Science Week Opening Ceremony, Kuen Cheng High School, Malaysia	2019	

- Plan and execute a large-scale performance for the annual science week
- Successfully performed a huge elephant toothpaste demonstration

Skills & Interests

Languages: Fluency in English, Mandarin Chinese, Cantonese and Malay

Software: Familiarity with Python, C++, C, JavaScript, HTML5, LaTeX, MATLAB, Mathematica

Authored: "Techniques for High School Mathematics Contests" (on Google Books)

Interests: Abstract Algebra, Topology, Quantum Physics, AI, Programming, Linguistics, NLP