

TIAN XIAO

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EDUCATION

National University of Singapore

Aug 2020 - Present

Bachelor of Science, Bachelor of Computing

- Double Degree in Applied Mathematics and Computer Science
- Science & Technology Undergraduate Merit Scholarship
- Expected Date of Graduation: May 2024
- CAP: 5.00/5.00

Relevant coursework/modules taken

- Calculus
- Career Catalyst
- Combinatorics and Graphs
- Computer Organisation
- Data Structures and Algorithms
- Discrete Structures
- Linear Algebra
- Mathematical Analysis
- Numerical Analysis
- Probability
- Professional and Academic Communication
- Programming Methodology
- Workplace Readiness

WORK AND INTERNSHIP EXPERIENCES

National University of Singapore (NUS), Teaching Assistant

Aug 2021 - Present

- Assisted professors in preparing and facilitating teaching of module CS2040, a course to equip students with knowledge on basic data structures and algorithms in computing
- Supervised weekly laboratory sessions for students to get hands-on experience on using certain data structures and algorithms and marked their assignments

Agency for Science, Technology and Research (A*STAR), Researcher

Mar 2018 - Feb 2019

- Conducted research on possibilities of using Lock-in Thermography Technique to detect 3-dimensional geometries of an object and evaluated its practicability of being applied to real life scenarios
- Computed Python algorithms to determine correlations within large datasets retrieved from Lock-in Thermography Technique
- Collaborated with colleagues to predict general trends beyond pre-engineered prototypes

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CO-CURRICULAR ACTIVITIES AND VOLUNTEER EXPERIENCES

NUS Mathematics Society, Publicity Director

June 2021 - Present

- Managed all publicity matters of NUS Mathematics Society to increase its uptake and improve its impact in order to benefit student community
- Publicised NUS Mathematics Society in Orientation Camp and Student Life Fair via multiple social media platforms that recruited and retained around 120 members in total
- Bridged communication on career information between around 1500 students, school departments and companies

Peer Mentorship Programme, Chairperson

Nov 2018 - Aug 2019

- Organised and chaired Peer Mentorship Programme to tutor disadvantaged children at Kebun Baru Community
- Conducted mentoring sessions and facilitated talent development workshops for 50 children
- Arranged schedules of 22 members to ensure sufficient manpower

School Chinese Orchestra and Guzheng Ensemble, Section Leader

June 2018 - June 2019

- Headed Bowed Strings Section in Chinese Orchestra and facilitated major events as part of the Execution Committee
- Cooperated with conductors and other sections to achieve perfect coordination across orchestra and obtained a Certification of Distinction at Singapore Youth Festival 2019 Arts Presentation For Chinese Orchestra (Full Orchestra) - JC
- Organised activities and outings to promote camaraderie within whole orchestra involving about 100 members

Citi-YMCA Youth for Causes: Project EOS, Chairperson

Feb 2018 - Oct 2018

- Initiated and chaired Project EOS to raise funds and public awareness for underprivileged children in Singapore
- Partnered with Singapore Children's Society for starting funds and necessary help in order to improve credibility and authority
- Communicated with members for creative marketing strategies and raised thousands of Singapore Dollars for underprivileged children

School Chinese Drama, Student Director

Jan 2016 - June 2017

- Directed drama shows and supervised script-writing, trainings and performances
- Consulted with Director, actors and 5 assisting units and was awarded a Certification of Distinction at Singapore Youth Festival 2017 Arts Presentation For Chinese Orchestra (Full Orchestra) - JC

ADDITIONAL INFORMATION

- **Languages:** English (Proficient), Mandarin (Native)

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- **IT Skills:** Programming Languages (Java, Python, C, JavaScript, HTML, CSS), Productive Softwares (Adobe Photoshop, Adobe Audition, Studio One), Social Media (Instagram, Facebook)
- **Interests:** Basketball, Music, Fine Art