

## EDUCATION

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**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

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**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

## CO-CURRICULAR ACTIVITIES AND VOLUNTEER EXPERIENCES

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### **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

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

# TIAN XIAO

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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