TIAN XIAO

8510 6059 • tianxiaos1202@gmail.com • www.linkedin.com/in/tian-xiao-1202

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 (Applied Mathematics): 4.96/5.00
  CAP (Computer Science): 5.00/5.00

Awards
- Dean's List, Bachelor of Computing (Computer Science), AY2021/22 Semester 1
- Dean's List, Bachelor of Science, AY2021/22 Semester 1
- Cohort Top among 634 students, CS1010S Programming Methodology, AY2020/21 Semester 1
- Cohort Top among 435 students, CS1231 Discrete Structures, AY2020/21 Semester 1

Relevant coursework/modules taken
- Artificial Intelligence
- Calculus
- Career Catalyst
- Combinatorics and Graphs
- Computer Organisation
- Data Structures and Algorithms
- Design and Analysis of Algorithms
- Discrete Structures
- Linear Algebra
- Machine Learning
- Mathematical Analysis
- Numerical Analysis
- Operating Systems
- Probability
- Programming Methodology
- Regression Analysis
- Software Engineering

WORK AND INTERNSHIP EXPERIENCES

National University of Singapore, Teaching Assistant (CS2030)   **Jan 2022 - Present**
- Assisted professors in preparing and facilitating teaching of module CS2030, a course to introduce fundamental programming methodology such as code design and coding style using Java involving more than 200 students
- Supervised weekly laboratory sessions for students to get hands-on experience on applying certain methodologies and principles, reviewed their assignment submissions and gave feedbacks

National University of Singapore, Teaching Assistant (CS2040/S)   **Aug 2021 - Present**
- Assisted professors in preparing and facilitating teaching of module CS2040/S, a course to equip students with knowledge on basic data structures and algorithms in computing using Java involving more than 450 students
- Developed class materials and conducted weekly laboratory sessions for students to reinforce conceptual knowledge and get hands-on experience on using certain data structures and algorithms and marked their assignments

Learnseeker, Education Strategist & Creator   **Aug 2021 – Jan 2022**
- Facilitated the operation of Learnseeker, an AI data visualisation and automatic grading tool for schools
- Created digital education resources
- Managed the classification and curation of education resources

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

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

NUS Teach Singapore, Academic Coach   **Aug 2021 – Dec 2021**
- Provided academic coaching and mentoring to children and teenagers under Christ Church Secondary School Champions Youth Tuition Programme, as a member of NUS Teach Singapore initiative

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)
- **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