

EDUCATION

Nanyang Technological University, Singapore Bachelor of Engineering in Computer Engineering , 4.62/5	Aug 2023 - Aug 2027
<ul style="list-style-type: none">Expected Honours (Highest Distinction)	
Nanyang Technological University, Singapore Bachelor of Social Sciences in Economics (Second Degree) , 4.70/5	Aug 2023 - Aug 2027
<ul style="list-style-type: none">Expected Honours (Highest Distinction)	
Raffles Institution, Singapore Singapore-Cambridge GCE Advanced Level , 87.5/90	Jan 2019 - Nov 2020
<ul style="list-style-type: none">Subjects: H2 Physics, H2 Chemistry, H2 Mathematics, H2 Economics, H1 General Paper, H1 Project Work	

PROJECTS

Full Stack Social Gallery App Django REST Framework, React JS, Azure Cloud	Mar 2025 - Mar 2025
<ul style="list-style-type: none">Designed a RESTful API with DRF and React SPA frontendDeveloped and deployed a full stack social website with token-based authentication and PostgreSQL DBIncorporated automatic thumbnail generation and image compression, reducing load times by up to 40%Deployed using Azure App Service and Static Web App, using Azure Blob Storage for media hostingAutomated deployments with GitHub CI/CD	
Hospital Management System Java, Maven	Oct 2024 - Nov 2024
<ul style="list-style-type: none">Developed secure and scalable hospital management system, applying principles of object-oriented programmingImplemented unit testing with JUnit and Mockito, ensuring high code reliability and proper test coverageIntegrated Git Version Control and GitHub Actions to automate documentation deployment, improving maintainabilityUtilized Maven for its automated build process and dependency management system, streamlining workflow	
Nanyang Technological University, Singapore Analysing Anime Trends for an Upcoming Studio pandas, scikit-learn, seaborn, matplotlib	Feb 2024 - May 2024
<ul style="list-style-type: none">Collaborated in a team of 3, utilizing various data science libraries, while managing version control with GitApplied data cleaning and formatting to ensure datasets were accurate, consistent, and ready for analysisUtilized diverse data analysis techniques, including regression and classification models, to extract actionable insights	
Nanyang Technological University, Singapore Texas Instruments MSP432P401R (ARM Cortex-M4F) Line Following Robot	Feb 2024 - May 2024
<ul style="list-style-type: none">Designed real-time embedded system in C and Assembly (ASM), integrating sensors, GPIO, interrupts, and timersImplemented sensor filtering algorithms to enhance signal accuracy and improve line detection.	
Global Game Jam Programmer	Jan 2024 - Jan 2024
<ul style="list-style-type: none">Collaborated with team of programmers and artists to finish a game in 48 hoursUtilized Unity & C# to write a multiplayer game, utilising clean architecture guidelines	

RELEVANT COURSEWORK

- Data Structures & Algorithms, Data Science & AI, Microprocessor Development, Operating Systems, Networking

CO-CURRICULAR ACTIVITIES

Marvel Game Development Club Technical Committee	Sep 2024 – Present
<ul style="list-style-type: none">Facilitated in workshops for over 20 undergraduates teaching the basics of Unity and C# programmingExplained key architecture concepts and helped with debugging in 3+ hours long workshop	
Chess Club Team Captain	Jan 2018 - Dec 2018
<ul style="list-style-type: none">Led team of 5 representing school to win 1st prize in National Inter-school Competition	

SKILLS

- Languages: Proficient in English & Chinese
- Digital Skills: Familiarity with Linux & Bash Scripts, Git, C/C++, Java, C#, Python, JavaScript

AWARDS AND ACHIEVEMENTS

- Recipient of the Hermes-Epitek Innovation Undergraduate Scholarship (2025)

HOBBIES & INTERESTS

- Playing the Piano & Pipa, Sketching, Painting, Going to the Gym, Developing/Playing Games