

EDUCATION

National University of Singapore	2019-2024
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Bachelor of Computing in Computer Science (CAP: 4.93/5.00)

Bachelor of Social Science in Economics (CAP: 4.86/5.00)

University Scholars Programme & NUS Merit Scholarship, Dean's List

National Junior College	2017-2018
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GCE 'A' Levels; 8 Distinctions

Intel Singapore Science and Engineering Fair, Bronze Award

2018

SuperComputing Frontiers Conference, Participation

2017

WORK EXPERIENCE

Defence Science Organisation National Laboratories	May 2021 – Aug 2021
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Machine Learning Intern

- Responsible for end-to-end research and development of deep learning workflows and network architectures for synthetic aperture radar (SAR) image processing.
- Designed and implemented various deep learning architectures in TensorFlow 2.0 based on multi-task learning, image segmentation, image super-resolution and image-to-image translation techniques.
- Optimised radar signal simulator with CUDA GPU acceleration and algorithm redesign. Speed ups up to 700x.
- Heavy exposure to data science libraries like scikit-learn, pandas and matplotlib and tools like Docker, Git, as well as literature on latest computer vision deep learning architectures.

Nyx Intelligence	Jun 2020 – Jul 2020
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Part-time software engineering intern

- Successfully developed a web application by using ASP.NET MVC4, Web API with Vue JS
- Webapp leveraged Entity framework (EF) Core in the environment by using Visual Studio.

CO-CURRICULARS AND OTHER ACTIVITIES

Oxford Map The System Competition 2021	Jan 2021 – Jun 2021
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Team Lead

- Led an interdisciplinary team of five to 2nd place at global finals, after winning national finals.
- Used a system thinking approach to study how institutional meritocracy might exacerbate social inequality, drafting a 21-page research and recommendation report.
- Underwent multiple workshops by Said Business school on systems thinking and communication.

NUS RoboMasters	Jul 2020 – May 2021
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Project Manager (Standard Robot)

- Led a team of five in designing three semi-autonomous Standard Robots for 2021 DJI RoboMaster Competition.
- Spearheaded mechanical design and implemented cascade classifier algorithms and R-CNN models for object detection in OpenCV and TensorFlow 2.0
- Two of three robots were fully functional and competitive in its capabilities.

Asian Development Bank #DigitalAgainstCOVID-19 Hackathon, Digitizing Waste	Jun 2020 – Aug 2020
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Team Lead

- Led a multidisciplinary team of four to a top 10 place as the youngest finalist among 140+ international teams.
- Designed a novel recycling solution through a mobile app built on machine learning and p2p services.
- Implemented a waste classification model based on ResNet-101 in TensorFlow 2.0 as a prototype.
- Designed and built a UI/UX wireframe with Figma and Adobe XD to demonstrate for our pitch.

CERTIFICATIONS & COURSES

CS50's Introduction to Artificial Intelligence (Python)	Dec 2020
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Harvard University, EdX Course

OTHER SKILLS

R, Java, SQL; Tableau; SolidWorks, Adobe Creative Cloud