

# Sun Ruiheng

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I'm a curious learner with writing and software development skills.

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## EDUCATION

### National University of Singapore

2022 – 2026

*B.Comp. Computer Science | B.Sc. Mathematics, Double Honours*

### Raffles Institution

2018 – 2019

*GCE A-Level — 100% Distinction*

**90/90 UAS**

*H2 Physics, Chemistry, Mathematics, Economics; H1 General Paper, Project Work*

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## WORK EXPERIENCE

### Institute for Infocomm Research, A\*STAR

*Machine Learning Intern (NLP)*

03/2022 – 07/2022

Agenda: To support the reconditioning of Machine Translation model targeting Southeast Asian Languages

- Designed and built over 50 automated programs using Scrapy, Selenium and API requests to acquire mass text data for training and testing.
- Created internal-use search engine with multilingual compatibility and basic UI, raising efficiency of manual error detection and analysis.
- Wrote schedulable, formatted and maintainable code and documentation for ease of use and practical continuity.

### Singapore Armed Forces

*Unmanned Aerial Vehicle Specialist, Full-time National Service*

03/2020 – 01/2022

- Proficient in set-up, launching, co-piloting, recovery and maintenance of the Boeing Insitu ScanEagle Unmanned Aerial Vehicle (UAV) systems, to establish superior naval reconnaissance.
- As Sports Director, devised and led a fitness regime for the entire UAV Branch and realised significant improvement in general physical conditions.
- Assisted with drafting, editing and transcribing of documents, vetting of texts for linguistic accuracy and copywriting of proposals.

### Defence Science & Technology Agency

*Project Management Intern (Software), DSTA Masterplanning and Systems Architecting*

01/2020 – 03/2020

- Studied the Design Innovation philosophy and employed its principles throughout the project.
  - Prepared and hosted User Research interviews with various Subject Matter Experts (SMEs) to understand users' complex needs and identify pain points.
  - Designed and wireframed mobile application prototypes in Adobe XD and surveyed for feedback qualitatively and quantitatively to improve UI and UX.
  - Programmed Android applications in Java to implement prototypes designed, arriving at several working models by internship's end.
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## AWARDS & ACHIEVEMENTS

### National University of Singapore

*NUS Merit Scholarship*

2020

### Republic of Singapore Navy

*Commander (Sergeant)*

2020 – 2022

### Raffles Institution

*Raffles Diploma with Merit in Sports & Health*

2019

*'A' Division Fencing Men's Epee Silver*

2019

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## LANGUAGES

**English** (Native) | **Mandarin** (Native)

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## SKILLS

**Front-end Development** | **Writing** | **Web Automation**

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## INTERESTS

