

Sun Yitao

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BComp in Computer Science
(Turing Programme)

Second Major in Mathematics

Expected May 2023

Cum. GPA: 4.61

Conc. in Theory & Algorithms

LINKS

Github: github.com/sun-yitao

LinkedIn: [linkedin.com/in/sun-yitao](https://www.linkedin.com/in/sun-yitao)

COURSEWORK

UNDERGRADUATE

Data Structures & Algorithms

Software Engineering

SWE for Digital Markets

Operating Systems

Computer Networks

CS Research Methodology

Quantum Computing

Combinatorics & Graphs

Programming Methodology

(Teaching Asst)

SKILLS

PROGRAMMING

Proficient:

Python • Swift • Golang • Java

Familiar:

C++ • JavaScript • PostgreSQL

Docker • Shell • \LaTeX

FRAMEWORKS

PyTorch • TensorFlow • Scikit-Learn

iOS • Gin • Flask • Express

Hadoop • Spark • Hive

PostgreSQL • Redis • Docker

GENERAL

Software Engineering

Backend Development

Linux

Machine Learning

Computer Vision

Natural Language Processing

Recommendation Algorithms

Data Visualisation

EXPERIENCE

SHOPEE | SOFTWARE ENGINEER INTERN

May 2021 – Aug 2021

- Implemented Alibaba's SWING algorithm for item-item similarity using Golang, Hadoop and Spark.
- Researched on recommendation algorithms, query relevance, search ranking and presented findings to team.

RAKUTEN VIKI | IOS ENGINEER INTERN

Apr 2020 – Jul 2020

- Implemented new homepage with redesigned navigation bar and content cards.
- Implemented Facebook login and analytics using Facebook API.
- Refactored API calls to make use of modern Swift 5 language features.

SHOPEE | DATA SCIENCE INTERN

Apr 2019 – Jul 2019

- Developed a framework that was put into production to identify overlapping product categories using NLP methods.
- Researched methods for product attribute tagging, multi-modal and extreme multi-label classification models.

XRVISION | MACHINE LEARNING INTERN

Nov 2018 – Apr 2019

- Improved image classification and localisation models.
- Implemented deblurring, antispoofing and contrast enhancement algorithms for the facial recognition platform.

PROJECTS

UROP | BENCHMARKING D-WAVE ADVANTAGE ON QUBOS

Jan 2021 – Present

Worked with **Prof. Rahul Jain** to benchmark the latest generation D-Wave Advantage quantum computer on quadratic unconstrained binary optimisation problems.

ORBITAL - ARTEMIS (EXTREME) | RANKATHON

May 2020 – Aug 2020

Rankathon is a hackathon managing platform similar to Devpost. It provides a mobile-friendly UI for judging and automatically sorts the winners for each category through a normalised ranking algorithm. I developed the backend using Golang containerised with Docker.

AWARDS

2020 2nd

Jane Street Electronic Trading Competition: **Github**

2020 1st

IOT Datathon: **Medium Article**

2019 1st

CS1101S 3D Runes Contest

2019 Top 10/1200

AI For SEA Challenge Finalist: **Github**

2019 2nd/359

National Data Science Competition: **Kaggle Post**

SOCIETIES

2020 - Present

NUS Hackers Coreteam

2019 - 2020

NUS Statistics Society Project Director