

Sun Yitao

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BComp in Computer Science
 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
 (Teaching Asst)
 Programming Methodology

SKILLS

PROGRAMMING

Proficient:
 Python • Swift • Golang • Java
 Familiar:
 C++ • Javascript • PostgreSQL
 Docker • Shell • \LaTeX

FRAMEWORKS

Pytorch • Tensorflow • Scikit-Learn
 iOS • Gin • Flask • Hadoop
 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

- Assigned to search algorithm team.
- Researched on recommendation algorithms, query relevance, search ranking and presented to team.
- Developed a new real-time item recommendation system using Golang and Hadoop.

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 instead of Facebook SDK.
- Refactor API queries to use Result type introduced in Swift 5.

SHOPEE | DATA SCIENCE INTERN

Apr 2019 – Jul 2019

- Developed a framework that was put into production to detect product categories which are too similar to one another every time the category tree updates, 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

- Made improvements for 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 - ARTERMIS (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	2 nd	Jane Street Exchange Trading Competition: Github
2020	1 st	IOT Datathon: Medium Article
2019	1 st	CS1101S 3D Runes Contest
2019	Top 10/1200	AI For SEA Challenge Finalist: Github
2019	2 nd /359	National Data Science Competition: Kaggle Post

SOCIETIES

2020 - Present	NUS Hackers Coreteam
2019 - 2020	NUS Statistics Society Project Director