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**

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 • 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 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	2nd	Jane Street Exchange 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 |