Yitao Sun

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE
BComp in Computer Science (Turing Program)
Expected May 2023
Cum. GPA: 4.61

UNIVERSITY OF SOUTHERN CALIFORNIA
Student Exchange Program

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
Databases
Parallel Computing
Quantum Computing
Combinatorics & Graphs
Optimisation Algorithms

SKILLS

PROGRAMMING
Proficient:
Python • Swift • C++ • Golang
Familiar:
Java • Typescript • Objective-C

FRAMEWORKS
Hadoop • Spark • GraphQL
PostgreSQL • Redis • Docker
iOS • Gin • Flask • Express
PyTorch • TensorFlow • Scikit-Learn

GENERAL
Software Engineering
Backend Development
iOS Programming
Linux
Machine Learning
Computer Vision
Natural Language Processing
Recommendation Algorithms

EXPERIENCE

META (FACEBOOK) | Software Engineer Intern
May 2022 – Aug 2022
- Implemented 2 features in Messenger iOS for easier user navigation: chat labels and inbox filtering, which launched worldwide to Rest of World.
- Wrote tests, documentation, and communicated with cross-functional teams to drive design, content, and business goals.

SHOPEE | Software Engineer Intern
May 2021 – Aug 2021

- Implemented Alibaba's SWING algorithm for item-item similarity using Golang, Hadoop and Spark which resulted in 9% higher click-through rate.
- Researched on recommendation algorithms and query relevance to determine the best approach.

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.

PROJECTS

WHISPERS SG | CS3216 Final Project
Sep 2021 – Present
Whispers.sg is a privacy-focused social network for anonymous sharing, currently with over 20k monthly users. I built the backend using a GraphQL stack of Apollo Server, Relay and Prisma.

RANKATHON | Orbital - Artemis (Extreme)
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

Year	Rank	
2021	1st	CS3216 19th SoC Term Project Showcase: **Website**
2021	1st	Space Out Hackathon: **Slides**
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

2021 - 2021	Tembusu Inter-College Games Chess Captain
2020 - Present	NUS Hackers Coreteam
2019 - 2020	NUS Statistics Society Project Director