

# 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](https://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  
 Databases  
 Parallel Computing  
 Quantum Computing  
 Combinatorics & Graphs  
 Optimisation Algorithms

## SKILLS

### PROGRAMMING

Proficient:  
 Python • Swift • Golang • Typescript  
 Familiar:  
 C++ • Java • 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 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.

## 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

2021	1 <sup>st</sup>	CS3216 19th SoC Term Project Showcase: <b>Website</b>
2021	1 <sup>st</sup>	Space Out Hackathon: <b>Slides</b>
2020	2 <sup>nd</sup>	Jane Street Electronic Trading Competition: <b>Github</b>
2020	1 <sup>st</sup>	IOT Datathon: <b>Medium Article</b>
2019	1 <sup>st</sup>	CS1101S 3D Runes Contest
2019	Top 10/1200	AI For SEA Challenge Finalist: <b>Github</b>
2019	2 <sup>nd</sup> /359	National Data Science Competition: <b>Kaggle Post</b>

## SOCIETIES

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