

# HONG SHAO YI

Year 4 Computer Science Undergraduate | NUS  
mr.hong.sy@gmail.com | +65 9816 5238 | Singaporean

[Website](#) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

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**National University of Singapore** **Aug 2018 - May 2022**

**Bachelor of Computing (Computer Science)**

- Current Cumulative Aggregate Point: 4.71 / 5 (First Class Honours)
- Achieved A for CS2103T Software Engineering, A+ for CS3219 Software Engineering Principles & Patterns, A for CS3217 Software Engineering on Modern Application Platforms

## WORK EXPERIENCE

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**Backend Engineer Intern** **May 2021 - Present**

**Shopee, Common Shared Services Server**

- Building a static analysis & data visualisation tool to detect dependencies amongst microservices, middlewares and software-defined infrastructure

**Teaching Assistant** **Aug 2020 – Present**

**National University of Singapore**

- Taught classes of more than 10 students in CS2103T Software Engineering and CS2100 Computer Organisation

**Technical Lead** **May 2020 - Present**

**Challo**

- Leading a team of 8 in developing Challo, a prospective web application that won the NUS Enterprise NUS Alumni Start-up Catalyst award and 2<sup>nd</sup> runner up for CS3217 in the 18<sup>th</sup> School of Computing Term Project Showcase ([STePS](#))
- Designed and developed its software architecture systems, database design and DevOps infrastructure and workflow
- Organised workshops to teach new developers basics of programming and web development
- Performed code and design reviews, tests across the testing pyramid and documentation of design and components

**Instructor** **Dec 2020 - Jan 2021**

**The Logic Coders**

- Taught programming fundamentals in Python to children aged 6 - 16

**Software Engineer** **Aug 2020 - Dec 2020**

**National University of Singapore, Anonymously-Email**

- Employed AWS Lambda and Elastic Beanstalk to deploy a serverless application written in Python to allow course instructors to receive feedback via a system-generated anonymous email

**Full Stack Software Engineering Intern** **May 2020 - Jul 2020**

**Glints Intern Pte Ltd**

- Developed mobile-responsive frontend features in job portal site, notably:

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- Revamped user onboarding flow to increase profile completion rate by 40%
- Revamped Glints VIP landing page to increase VIP application rate by 100%
- Implemented localisation & translation of Employers site in Taiwan domain, thereby opening up Glints to the Taiwan Marketplace
- Employed Google Tag Manager tags and Amplitude events to track user events
- Designed and wrote end-to-end tests for frontend interface with UI-licious to increase coverage by 30%

## Marketing and Events Intern UNFRAMED

May 2020 - Jul 2020

- Designed and developed two websites using Wordpress from scratch to full functionality
- Curated and implemented various marketing metrics by analyzing site traffic using Google Analytics to improve user acquisition, flow and turnover rate

## PROJECTS

### Product Owner and Developer

July 2020 – Present

#### Project Morphine 1B (Mobile App Team), NUS MedTech

- Led team to design and develop a React Native application in collaboration with The Prosthesis Company. It serves to detect fall signals transmitted by a prosthesis sensor worn by amputees & elderly, and to alert caretakers to render emergency aid
- Introduced and facilitated Scrum workflow in development team
- Managed product vision, product roadmap and product backlog

## VOLUNTEER & CO-CURRICULAR ACTIVITIES

### National University of Singapore

Jan 2018 - Present

- Project Director for NUS MedTech, a student-led group passionate in developing medical technology products
- Technology Associate for Developer Student Club NUS
- Developer for OscarBot, a Telegram bot written in Python, serving as an anonymous chat platform for various events in Residential College 4 (RC4)

## SKILLS

- Golang, Python, Swift, Typescript, Javascript, HTML, CSS, Java and R
- SwiftUI, React, React-Native, Redux, Next.js, Express and JavaFx
- Ui-licious, Junit, and TestFx
- Nginx, Postgres, MySQL, Redis
- Amazon Web Services: EBS, EC2, Lambda
- Linux, Docker, Git, Travis, Google Tag Manager, Amplitude, Lokalise, JIRA, Wordpress

## AWARDS & ACHIEVEMENTS

- Wee Cho Yaw Future Leaders Award (NUS Donated Scholarship), 2018 - 2022