

# HONG SHAO YI

Year 4 Computer Science Undergraduate | NUS  
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[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)
- Notable modules taken:
  - CS2103T Software Engineering (A)
  - CS3217 Software Engineering on Modern Application Platforms (A)
  - CS3219 Software Engineering Principles & Patterns (A+)
  - CS4218 Software Testing (A)

## WORK EXPERIENCE

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**Freelance Web Developer** **May 2021 – Present**

- Developed Universal Cold Logistic Properties' [website](#) from a Figma UI design package

**Backend Engineer Intern** **May 2021 – Aug 2021**  
**Shopee, Common Shared Services Server**

- Built a static analysis & data visualisation tool to detect and visualize dependencies amongst microservices, middlewares and software-defined infrastructure from code

**Teaching Assistant** **Aug 2020 – Present**  
**National University of Singapore**

- Organiser for Design Your Own Module - Distributed Systems
- Currently teaching, facilitating and evaluating assignments & tutorials for:
  - CS2103T Software Engineering
  - CS3219 Software Engineering Principles and Patterns
  - IT5007 Software Engineering on Application Architecture

**Co-founder - 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 2nd runner up for CS3217 in the 18th 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

**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**  
**Glints Intern Pte Ltd**

**May 2020 - Jul 2020**

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

## **PROJECTS**

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**Product Owner and Developer**

**July 2020 – July 2021**

**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**

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**National University of Singapore**

**Jan 2018 – July 2021**

- 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)
- Vice Head and Logistic Head for RC4lunteers, a volunteering interest group in RC4
- Property & Productions Manager and Principal Player for NUS Chinese Orchestra

## **SKILLS**

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

## **AWARDS & ACHIEVEMENTS**

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