HONG SHAO YI

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EDUCATION

National University of Singapore   **Aug 2018 - May 2022**
Bachelor of Computing (Computer Science)
- Current Cumulative Aggregate Point: 4.71 / 5 (First Class Honours)
- Notable nodules 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

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 (following MIT 6.824 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   May 2020 - Jul 2020
Glints Intern Pte Ltd
- 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

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

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

- 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, gRPC
- Amazon Web Services: EKS, EBS, EC2, Lambda
- Travis, Google Tag Manager, Amplitude, Lokalise, JIRA, Wordpress

AWARDS & ACHIEVEMENTS

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