

Sean Soo



Software Engineer Intern

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01 PROFILE

I am a Computer Science Major at Singapore University of Technology and Design (SUTD) looking to gain relevant insight into the industry and to leverage on my Problem Solving and Critical Thinking in a professional workplace environment.

I am currently learning Golang and will be taking Machine Learning and Networks related courses in school.

02 EDUCATION

Jan 2015 — Dec 2017

Catholic Junior College

Singapore

A Levels

Took Physics, Mathematics, Chemistry, Economics and Graduated with an RP of 79/90

Sep 2020 — Sep 2024

Singapore University Of Technology and Design (SUTD)

Singapore

Computer Science and Design (CSD)

Currently a Sophomore at SUTD with a GPA of 3.9/5

03 SKILLS

Java

Fast Learner

Python

Ability to Work in a Team

Android Development

Communication Skills

Adaptability

JavaScript

04 PROJECTS

Jan 2021 — Apr 2021

Social Distancing Site Design

SUTD

Collaborated and designed with my groupmates, a social distancing optimised shelter for the elderly to socialise and play chess for a school project

Through this project, we learned first hand on the difficulties on the design process. We had to continuously adapt and modify our ideas and prototypes to better fit the needs of the design problem.

Project Link is [here](#)

May 2021 — Jul 2021

Undergraduate Research Opportunity Programme (UROP)

SUTD

Investigated the efficiency of alternative sources of energy (Piezoelectricity and Solar) to integrate into devices to enhance their power performance. The specific device we chose was for a keyboard and how we could harness the kinetic energy from keyboard presses to extend its battery life

Feb 2022 — May 2022

Grocery Shopping App for Elderly

SUTD

Made an Android App tailored to aiding the needs of the Elderly who may not be physically capable of carrying heavy load of groceries from the supermarket to the groceries, but do not want to use current technologies (PandaMart, RedMart) as they are too 'disruptive' to their daily routine

Project Link is [here](#)

Project Responsibilities:

- Created the user profile models for the database
- Utilised Firebase's Phone authentication and Firestore to create User Authentication
- Login Page UX/UI

Dec 2021 — Jan 2022

ROBOCLASH 2022

SUTD

Took part in a robotics competition organised by SUTD, partnered with LIONSBOT.

Competition link is [here](#)

Learned how to use micro-controllers and an Arduino to program a robot. Designing the robot to adapt to not only the competition playing itself, but to other competing robots and thinking outside of the box strategies was not only a fun but also rewarding experience that I would look forward to again.

Dec 2021 — Dec 2021

What The Hack

Singapore

A user-friendly IOT system that aims to boost the efficiencies of the waste-collection process in Singapore by reducing the travelling time and workload of waste-management employees

Responsibilities:

- Programmed the Telegram bot in Python
- Firebase Realtime Database code that communicates with the RPI
- Aided in integrating Google Maps API along with route optimisation algorithm

05 INTERNSHIPS

Jul 2021 — Sep 2021

Software Engineer Intern at Beep

Singapore

Hired as a SFE intern at Beep, a Singapore startup company specialising in developing autonomous solutions for current problems such as payment methods and EV charging

- Aided in the development of automated printer software using Python and Node.js that was used in vending machines that were used to distribute COVID-19 test kits in hospitals.

- Used Typescript to help develop backend of EV phone application with Web Scraping

Aug 2022 — Jan 2023

Frontend Engineer Intern at Voltality

Singapore

- Maintained current web applications in Vue and ReactJS.

- Built a microservice using ReactJS and Stripe API for payment

- Built a Frontend Web Application using Typescript + ReactJS, TailwindCSS and ReactQuery.

Also aided in building the endpoints needed for the application in ExpressJS + Typescript

06 EXTRA-CURRICULAR ACTIVITIES

Jan 2021 — Jan 2022

Vice President , Civil Defence LionHearters (CDLH)

SUTD

- Facilitates first aid lessons to members of the club
- Helps in organising and participating in community aid events
 - Food Drive for Food For The Heart in March 2021
- Provided first aid covers for school events

07 COURSES

Dec 2021 — Jan 2022

Introduction to Java and Android Development at Codecademy

Jun 2021 — Jun 2021

Learn the Command Line at Codecademy

Sep 2021 — Sep 2021

Learning Github at LinkedIn Learning