

EDUCATION

National University of Singapore (NUS)

- Bachelor of Engineering (Honors) in Mechanical Engineering; CAP: 4.44/ 5.0
- NUS Overseas College (NOC) Program 2020 – Munich

Singapore
Aug 2019 – Dec 2022

Ngee Ann Polytechnic

- Diploma with Merit in Aerospace Technology; GPA: 3.88/ 4.0

Singapore
Apr 2014 – Apr 2017

SKILLS

Languages: Python, C, JavaScript, TypeScript, HTML, CSS, Tailwind

Technologies: Firebase, React.js, Remix, Prisma, GraphQL, REST, Git, LVGL, ESP32, ESP-IDF

WORK EXPERIENCE

Trustana

Front-end Software Engineer

- Designed and developed several major features for a B2B e-commerce SaaS product using Remix, Tailwind, Prisma (Backend for Frontend), GraphQL and Typescript.
- Performed research, code optimization, code reviews and collaborated with UI/UX designers, QA and back-end engineers in an agile environment.

Singapore
May 2022 – Present

Aerofoils GmbH

Embedded Software Engineer Intern (Remote)

- Led development efforts of a GUI for an e-hydrofoil surfboard remote controller based on ESP32 running FreeRTOS using C and the LVGL library in ESP-IDF.
- Built several interactive custom user interface widgets, screens, nested menus, and navigation logic.

Munich, Germany
Jan 2021 – Jul 2021

B1G1 Pte. Ltd (Buy1GIVE1)

Software Engineer Intern

- Integrated Mixpanel, Google Analytics, Segment and ActiveCampaign into company's website and generated custom user behavior reports for internal stakeholders.
- Reduced sales team workload by automating marketing qualified leads (MQL) email verification processes by incorporating email verification API with ActiveCampaign.

Singapore
May 2020 – Jul 2020

PROJECTS AND ACHIEVEMENTS

Shopee Play n' Shuffle – Shopee Ultra-Hackathon 2021

<https://3qbvl.csb.app/> (Best viewed on mobile)

- Led a team of 4 to create a time-based sliding puzzle game using React.js to promote user engagement with the Shopee platform and increases user retention.

Jan 2021 – Jan 2021

KrisScan – Singapore Airlines (SIA) AppChallenge 2020 (2nd Place)

- Proposed a web app to automate SilverKris lounge facilities booking processes, providing KrisFlyer passengers greater convenience.

Aug 2020 – Aug 2020

B1G1 Giving Impact Map – Individual internship project

<https://b1g1impactmaptest.herokuapp.com/>

- Designed and developed an interactive map with React.js, deck.gl, Aloglia search and internal APIs to provide giving impact data visualization for stakeholders.

Jun 2020 – Jul 2020

EXTRA-CURRICULARS

Recyclables, NUS Social Impact Catalyst Club – Project Director & Software Engineer

<https://recyclables.netlify.app/>

- Spearheaded and lead a social initiative enabling residents to hail for a rag and bone man via a Telegram Bot, providing increased recycling convenience.
- Responsible for developing the Telegram bot using python and Firebase, and implemented a geofence-based user registration system to enable ease of region expansion.
- Launched in Q3 2020 and concluded in January 2022 with over 4.2 tons of recyclables collected and 780 registered users.

Oct 2019 – Jan 2022