SHEN YI CUI

Portfolio | **GitHub/ShenyiCui** | **LinkedIn/ShenyiCui** | **shenyicui@outlook.com** | **+65 8870 5204**

Hi! I'm a passionate and inquisitive aspiring Software Engineer with an international background spanning across Asia.

Work Authorization: Singaporean; Eligible for the **H-1B1-Singapore Visa**, which has a separate quota from the H-1B pool.

EXPERIENCE

Google Developer Student Club, Singapore (SG) — *Full Stack Engineer*
SEP 2021 - SEP 2022

GDSC is a club that develops applications for non-profit organisations.

- Created a new **web application** that streamlined Diabetes Singapore's planning by overhauling their previous Excel-based workflow into an automated website management system.
- Developed relational databases with PostgreSQL and REST APIs with TypeScript and Express.
- Produced a responsive, interactive UI with React and Redux.
- Awarded a Plaque from the **Minister of Education** in recognition of the utility of our work.

Computing for Voluntary Welfare Organizations, SG — *Full Stack Engineer Intern*
MAY 2022 - AUG 2022

CVWO builds technology infrastructure for voluntary welfare organisations (VWO) and more.

- Maintained relational databases on PostgreSQL and REST APIs with Ruby on Rails for Lion Befrienders - an organisation that provides community and care for seniors.
- Spearheaded the conversion and upgrade of Ruby 2.5.3 and Rails 5.2.1 to Ruby 3.0.3 and Rails 6.1.5.
- Built Progressive Web Applications with React+Ionic and maintained a 13+ year-old codebase.

LittleLives, SG — *Software Engineer Intern*
MAY 2021 - AUG 2021

LittleLives is an education technology firm that provides student management software to schools.

- Designed an integrated ticket-based issue tracker between multiple services to create a seamless flow of information from clients, to customer service, to software engineers.
- Implemented Webhooks and REST APIs to connect multiple services using NodeJS.
- Hosted on Amazon Web Services (AWS) Lambda and AWS API Gateway.
- Code is **in production** and used by 500 employees, increasing productivity.

EDUCATION

National University of Singapore (Second Year)
Bachelors of Computing (Honors) in Computer Science.
AUG 2021 - MAY 2025
Algorithms and Data Structures (Java), Programming Methodology I & II (JavaScript & Java), Software Engineering (Java)

PROJECTS

SCOOT REIMAGINED — *A.I. RECOMMENDER (Plan, Product & Design)*
SINGAPORE AIRLINES APP CHALLENGE 2022, **1ST PLACE**
AUG 2022 - SEP 2022

- Placed **first** out of over **110 global submissions** in an annual **global** hackathon to source solutions to aviation industry problems.
- Developed a Progressive Web Application with React + Ionic that leveraged TensorFlow recommenders A.I. to recommend ancillary services based on user profiles and preferences.
- Designed to create a stickier ecosystem and ultimately increase revenue streams.

DULWICH BOOKINGS — *BOOKING SYSTEM (Plan, Product & Design)*
MAY 2022 - SEP 2022

Dulwich Bookings is a Booking System built for **DCI**'s family of schools to help manage and book highly contested resources and rooms.

- Served as **Software Engineering Lead** for a **team of 6** and planned the weekly sprints.
- Planned the overall database architecture and performed code reviews to ensure and enforce high-quality code.
- Website is used daily by over **300** students, increasing the productivity of teachers.
- Responsive modern web application using React, TailwindCSS with Express and NodeJS.

SKILLS

Experienced in:

- JavaScript, TypeScript, Java, Ruby
- Express, PostgreSQL, Redux, React, jQuery, TailwindCSS, Material UI, Git, Rails, Sequelize, NodeJS, Ionic, Capacitor

Familiar with:

- Python, Elixir, Erlang, SQL, Swift, R, C, C++, AutoIt
- Ecto, AWS Lambda, AWS DynamoDB, AWS API Gateway

AWARDS

LifeHack NUS Computing **2022 Winner**
A mobile app that uses Machine Learning with image recognition to determine whether a piece of trash is recyclable and, if so, how to recycle it.

- Awarded Theme Best out of over **413 participants**.
- Plan & Product

Google, DSC Hack for Good 2022 Finalist (Top 9)
A Google Chrome extension that passively replaced gendered verbs with neutral alternatives.

- Finalist (Top 9) out of over **111 Participants**.
- Plan & Product

CodeIT Suisse 5th Place 2022
A global coding challenge run by Credit Suisse designed to test your skills, personality and aptitude for technology.

TEACHING

ST1131 Computational Statistics Teacher Assistant

- Taught over 10 Students Computational Statistics.
- Lead weekly tutorial classes.