

CUI SHEN YI

📁 [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 that spans 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 improved Diabetes Singapore's data, resource and event management solution, increasing productivity.
- Developed relational databases with PostgreSQL and REST APIs with TypeScript and Express.
- Produced a responsive, interactive UI with React and Redux.
- Received 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 friendship and care for seniors to age.
- 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 codebase that's 13 years old.

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

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, CHAMPION TEAM](#)

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:

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

Familiar:

- 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](#)

Singapore Armed Forces, 117/19 SOCC Sword of Honor

The most prestigious award bestowed on the top graduate of Officer Cadet School.

TEACHING

ST1131 Computational Statistics Teacher Assistant

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