

# SHEN YI CUI

📁 Portfolio | 🌐 [GitHub/ShenyiCui](https://github.com/ShenyiCui) | 🔗 [LinkedIn/ShenyiCui](https://www.linkedin.com/in/ShenyiCui) | ✉️ [shenyicui@outlook.com](mailto:shenyicui@outlook.com) | ☎️ +65 8870 5204

Hi! I'm a passionate and inquisitive aspiring Software Engineer interested in technology for social good.

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

## EXPERIENCE

### Dyslexia Association of Singapore, Singapore (SG) — *Frontend Engineer Intern*

SEP 2022 - CURRENT

DAS is an organisation that helps diagnose and educate dyslexic children.

- Built an online learning platform with React and Typescript that helped dyslexic children overcome their learning difficulties.
- Implemented an interactive, responsive canvas that allowed students to draw and practice words.
- Streamlined staff workflow with an in-house student course management system.
- Created using Recoil, React, Typescript and TailwindCSS with Storybook for unit testing.

### Diabetes Singapore, SG — *Full Stack Engineer Intern*

SEP 2021 - SEP 2022

DS is an organisation that helps provide diagnosis, treatment and community to diabetes patients.

- Created a new web application that streamlined Diabetes Singapore's planning by overhauling their previous Excel-based workflow into an automated website management system.
- Produced a responsive, interactive UI with React and Redux with Typescript.
- Developed relational databases with PostgreSQL and REST APIs with TypeScript and Express.
- 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.

- Built Progressive Web Applications with React and Typescript with Ionic.
- 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.

## 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 (JavaScript), System Design (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.
- Built a responsive modern web application using React, TailwindCSS with Express and NodeJS.
- Leveraged CI/CD pipelines to automate push and pull request checks.
- 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.

## 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 built with React 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.