CUI SHEN YI

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

Hi! I'm a passionate and inquisitive Computer Science Undergraduate with an international background that spans across the world.

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE (SECOND YEAR)

Bachelor of Computing (Honors) in Computer Science   *AUG 2021 - MAY 2025*

Algorithms & Data Structures (Java) • Software Engineering (Java) • Database Systems (SQL) • System Design and Object Oriented Programming (Java) • Database Systems (SQL) • Computer Networks

UNIVERSITY OF CALIFORNIA SAN DIEGO (EXCHANGE)

Bachelor of Computing (Honors) in Computer Science   *SEP 2023 - DEC 2023*

EXPERIENCE

FRONTEND ENGINEERING INTERN

Datature (SG)

Jan 23 - Present

Datature is a company that builds no-code solutions to annotate, train, visualise, and deploy computer vision models

NextJS • React • BlueprintJs • TypeScript

- Created an interactive node-based UI to allow users to design customisable access control flow with React-Flow
- Spearheaded the migration and implementation of a new Authentication System on Auth0
- Installed CDP code with Segment, Mixpanel and Sentry to accurately track activity for better product insights

FULLSTACK ENGINEERING INTERN

Computing for Voluntary Welfare Organisations (SG)

May 22 - Aug 22

CVWO is an organisation that builds technology infrastructure for voluntary welfare organisations

React • Redux • Ionic • Ruby on Rails • PostgreSQL

- Maintained relational databases on PostgreSQL and REST APIs with Ruby on Rails for Lion Befrienders
- Built Progressive Web Applications with React + Ionic that's in production - helping seniors book activities online
- Led the effort to update Ruby on Rails versions, upgrading from Ruby 2.5.3 and Rails 5.2.1 to Ruby 3.0.3 and Rails 6.1.5

FULLSTACK ENGINEERING INTERN

Diabetes Singapore (SG)

Aug 21- Aug 22

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

React • Redux • TailwindCSS • ExpressJS • PostgreSQL • Sequelize

- Developed a web application with React that automated Diabetes Singapore's planning process and replaced their previous Excel-based workflow
- 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

PROJECTS / AWARDS

SCOOT REIMAGINED

Singapore Airlines Hackathon, **1ST PLACE**

The SIA Hackathon is an annual global hackathon to find innovative solutions to real-life industry challenges.

View GitHub   Visit Project

React • Redux • TailwindCSS • Ionic • Python • TensorFlow

- 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

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PROJECTS / AWARDS

RECYCLOPS
LifeHack, 1ST PLACE

LifeHack 2022 is the largest student run hackathon in Singapore.

View GitHub   Visit Project

React • Redux • TailwindCSS • TypeScript • Ionic • Python • Pytorch

- Awarded Theme Best out of over **413 participants**.
- Recyclops, a PWA powered by machine learning, allows users to scan household objects for recycling information, including safety, recycling instructions, and special requirements
- Recyclops also serves as a recycling information dashboard, providing users with access to articles

DULWICH BOOKINGS
Resource Management System

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

View GitHub   Visit Project

React • Redux • TailwindCSS • MaterialUI • TypeScript • Sequelize • ExpressJs • PostgreSQL

- Served as **Software Lead** for a team of 6 and planned the weekly sprints with agile development.
- 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.

PROJECT SIGHTWORDS
Education Tech Software

Developers from Google Developer Student Club NUS created a custom online learning platform to make learning more fun and effective for dyslexic students.

Not_Available   Figma Prototype
Links are unavailable to safeguard the sensitive data of students.

React • Redux • TailwindCSS • MaterialUI • TypeScript • TypeORM • NestJs • PostgreSQL

- Application was developed with collaboration from the Dyslexia Association of Singapore
- 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.

SKILLS

EXPERIENCED
React • Redux • TailwindCSS • MaterialUI • BlueprintJS • Express • PostgreSQL • jQuery • Git • Rails • Sequelize • NodeJS • Ionic • Capacitor • Recoil • Storybook • JavaScript • TypeScript • Java • Ruby

FAMILAR
Ecto • AWS Lambda • AWS DynamoDB • AWS API Gateway • Python • Elixir • Erlang • SQL • Swift • R • C • C++ • AutoIt

LEARNING
ElectronJS

TEACHING

NATIONAL UNIVERSITY OF SINGAPORE

CS2030S Programming Methodology II (System Design and Object Oriented Programming)
- Lead weekly Tutorial Classes teaching 15 students the principles of OOP and System Design in Java.

ST1131 Introduction to Computational Statistics (R Programming)
- Taught over 10 Students Computational Statistics.
- Lead weekly tutorial classes.