

Siddardha Reddy Sanagala

(+65) 94891038 | sr.sanagala@outlook.com | [linkedin.com/in/srsanagala/](https://www.linkedin.com/in/srsanagala/) | github.com/Siddardar

EDUCATION

National University of Singapore

Singapore

Bachelor of Computing (Honours) in Computer Science

Aug 2023 – Dec 2026 (expected)

- Second Major in Mathematics
- Minor in Quantitative Finance
- Relevant courses completed: Data Structures and Algorithms, Programming Methodology 1 and 2, Discrete Mathematics, Introduction to Quantitative Finance
- Relevant courses (currently enrolled): Computer Organisation, Software Engineering, Mathematical Analysis 1

TECHNICAL SKILLS

Languages: Java, Python, SQL (Postgres), JavaScript/TypeScript, HTML/CSS

Frameworks: React/React Native, TensorFlow, Gatsby.js, Node.js, Flask, Jest

Developer Tools: Git, Docker, GitHub Actions, Postman

Platforms: Expo, Azure, Stripe, Supabase, Firebase

Libraries: Beautiful Soup, Selenium, AIOHTTP, PySimpleGUI

PROJECTS

SwipeStyle (NUS Orbital) | *React Native, Python, Node.js, Flask, PostgreSQL, Jest*

- Developed a full-stack mobile shopping application using Expo and React Native for the front-end and Node.js for the back-end
- Successfully implemented Stripe payments in the app allowing users to make purchases through their card, PayNow, GrabPay
- Implemented a custom collaborative filtering machine learning model using TensorFlow Keras
- Built a Flask back-end for the model to query recommendations for new users as well as handle new user sign-ups
- Achieved a model accuracy of 0.733 and a training loss of 0.109 with a limited dataset of 500 interactions.
- Containerised model and Node.js back-end using Docker and hosted it on Azure using GitHub Actions
- Wrote unit tests in Jest to ensure the proper rendering of the mobile application.
- Attained the level of Artemis (expected), awarded to the top 5% of all projects

Personal Website | *React, JavaScript*

- Designed and built a personal website using Gatsby.js to showcase projects made for my NUS ABA application
- Implemented a custom contact page allowing users to send me emails through a form
- Set up a custom domain name and generated a SSL certificate for the website

Chess Review | *Python, PySimpleGUI*

- Developed a Python script to analyse a user's latest Chess.com games, helping them learn from their mistakes
- Produced a video and a code walk-through using Adobe Premier Pro viewable [here](#)

Court Scan | *Python, AIOHTTP*

- Created a Python script to search for available ActiveSG badminton courts based on user location
- Optimised search times by implementing asynchronous HTTP requests in Python

EXPERIENCE

Undergraduate Teaching Assistant

Aug 2024 – Present

National University of Singapore

Singapore

- 1 out of 29 Undergraduate Teaching Assistants for IS1108 Data Ethics and Privacy
- Prepared teaching materials and delivered weekly tutorial lessons to a class of 25
- Facilitated and helped lead group discussions
- Graded students' assignments and provided meaningful feedback

ADDITIONAL INFORMATION

Languages: German (C1), Spanish (B1), French (B1), Hindi, Telugu (Native), English (Native)