Sindhura Rajiv Jain

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EDUCATION

National University of Singapore Aug 2022 - May 2026
Bachelor of Computing (Honours) in Computer Science, 2nd Major in Mathematics
Technical Skills: Python, JavaScript, TypeScript, Java, C, Swift, HTML, CSS, R
Frameworks & Technologies: ReactJS, GraphQL, TailwindCSS, Keras, Tensorflow, Numpy, Pandas, Matplotlib, BeautifulSoup, MaterialUI, DaisyUI, Figma, CAD, Adobe Creative Cloud, MATLAB
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Computer Organisation, Calculus, Discrete Mathematics, Linear Algebra, Probability & Statistics
Distinctions: NUS Merit Scholarship

WORK EXPERIENCE

Machine Learning Research Intern (Full-Time, Ongoing) May 2023 - Jul 2023
Agency for Science, Technology and Research
- Using Tensorflow to explore generative models such as GANs and Variational Autoencoders for query synthesis in active learning for regression in analogue circuit design application

Research Assistant (Part-Time) Jan 2023 - Apr 2023
National University of Singapore
- Wrote Python scripts using Epitran library for grapheme-to-phoneme conversion of poetry written in various languages for "Universals in Language Iconicity" linguistics research project
- Built web scraper in Python using BeautifulSoup to create corpus of Thai poetry

Teaching Assistant (Part-Time) Jan 2023 - Apr 2023
School of Computing, National University of Singapore
- Conducted 2 weekly tutorial sessions of 30 students each for Digital Ethics & Data Privacy class
- Led discussions on case studies, reinforced content and graded assignments

Software Engineering Intern (Part-Time) Sept 2022 - Jan 2023
Centre for Quantum Technologies
- Developed a machine learning model in Python using Keras and Numpy libraries to classify images of clouds by percentage cloud cover
- Generated image samples and plots of model accuracy and prediction accuracy using Matplotlib
- Improved model accuracy from 40% to 90% by balancing classes and using early stopping to reduce overfitting
- Integrated it into a website using Streamlit and used Pandas dataframe to output predictions of test images as downloadable CSV file

PROJECTS

Train Station Speedrunner | *ReactJS, OneMapAPI, GraphQL, Leaflet, MaterialUI*
- Developed React web app to find shortest route between 2 train stations using OneMap API
- Developed feature of telling a user which train door is nearest to the escalator at the destination station using GraphQL

Personal Website | *ReactJS, HTML5, CSS3, MaterialUI*
- Developed personal website to showcase skills and projects

Task-Management iOS App | *Swift, SwiftUI*
- Developed productivity app for creating checklists, notes and event countdown clocks
- Built functionalities such as sending reminders and adding, editing and deleting entries

RollyAI | *TypeScript, ReactJS, TailwindCSS, DaisyUI*
- Used TypeScript, React, TailwindCSS and DaisyUI to build the frontend of website that synchronously displays Telegram messages as widgets on the website for hackathon project

ACTIVITIES

- Head of NUSClimatech (green technology interest group)
- Editor for Yale-NUS Undergraduate Research Journal