Yeoh Han Yi

Availability: 04 May 2024 - August/September 2024 (Estimated)

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EDUCATION

National University of Singapore Aug. 2023 – May 2027 (Expected)
Bachelor of Computing in Computer Science, Second Major in Statistics *Current GPA: 4.6/5.0 (Ongoing)*

Dunman High School Jan. 2015 – Dec. 2020
H3 Physics, H2 Physics, H2 Chemistry, H2 Mathematics, H2 Economics *Rank Points: 88.75/90*

TECHNICAL SKILLS

Languages: Python, Java, HTML/CSS, Javascript/Typescript, C/C++, R, SQL
Frameworks: React, NextJS, Astro
Developer Tools: Git, VSCode, IntelliJ, Eclipse, Neovim, Jupyter Notebook
Libraries: Scikit-Learn, pandas, Tensorflow, Keras, Pytorch

PERSONAL PROJECTS

MedExtension | *Javascript, Chrome, ChatGPT API* December 2023
- Built a simple Chrome extension to generate summary text for highlighted snippets of text on online medical documents.
- Made for Health Hack 2024 as my first hackathon project as the only programmer in the team.
- Gained experience with querying and managing outputs using ChatGPT's 3.5-Turbo API.
- This extension was paired with a simple CRUD forum website, built with Typescript, NextJS and MongoDB.

ArknightsParticles | *Typescript, ThreeJS, GLSL* December 2023
- Learnt Typescript and picked up ThreeJS by reverse-engineering a particle effect from a game website.
- Refactored and optimized outdated GLSL shaders and ThreeJS code to use the latest ThreeJS functionalities.
- Migrated the project from an outdated React framework to the modern NextJS framework, deployed on Vercel.
- Passion project built over freshman winter break to learn more about web-development and visual elements.

Digits Predictor Webapp | *Tensorflow, HTML, CSS, Javascript* December 2023
- Trained a Tensorflow convolutional neural network to predict digits given a handwritten image with 97% accuracy on Kaggle.
- Utilised TensorflowJS to import the model in JSON format and handle predictions.
- Created a canvas component to generate a data array from handwritten user input, which is used by the imported model to produce a prediction.
- Model confidence is then plotted using ChartJS.

Personal Website | *HTML, CSS, Typescript, React, NextJS, ThreeJS* December 2023
- Picked up basic web-development languages such as HTML, CSS and Javascript over two weeks to build a website.
- Self-learnt React and the NextJS framework and learnt ThreeJS to add 3D elements to the website.
- The website will continuously be updated and improved over time as I learn more about web-development.

EXPERIENCE

NUS/RC4 AI | *Member* August 2023 – Present
Residential College 4 | National University of Singapore
- Member of NUS AI, a student union group that is partnered with AISG in providing AI related education to members.

OrcaCode | *Member* August 2023 – Present
Residential College 4 | National University of Singapore
- Member of a residential college coding interest group learning about current computing coursework and competitive programming problems.

Mapping Operations Coordinator November 2022 – January 2023
GrabTaxi Holdings Pte Ltd
- Daily deployment to partners and vendors operating under Grab to update information within databases.
- Review, updating and quality control of information in both online and offline systems.
- Aided in provision of data for a pilot system under development.
- Involved in other ad-hoc and miscellaneous duties.