EZRA TIO

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ABOUT ME

I am adaptable and can quickly grasp new concepts and data structures. I am also valuable in group projects and often contribute by generating ideas or providing leadership. I always seek to challenge myself to reach new heights.

EDUCATION

- Year 2 Computer Science student
- National University of Singapore
- Pursuing a career in software engineering, with a focus on Artificial Intelligence

MY PROJECTS

AI Art Gallery (React, NextJS, Chakra-UI, Framer-Motion)

As artificially generated artwork becomes more popular with models such as DALL-E 2, Midjourney and Stable Diffusion, I wanted a site where I could store my generations for future reference and hone my site-building skills. As a result, I created a small gallery built on NextJS for this purpose. It is dynamic and responsive for both desktop and mobile screen resolutions. It follows standard software engineering practices such as accessibility checks and storing images in modern image formats to increase load times and minimise network payload.

Dinosaur Detector (Huggingface, fast.ai, React)

My first foray into machine learning was with fast.ai's easy-to-learn framework. Using fast.ai's "resnet50" image learning resource, I trained a model on dinosaur (and non-dinosaur) pictures. I then uploaded the model onto Huggingface as a new space, which functioned as the backend for my site. I built the front-end of my site using create-react-app and MaterialUI, which provided a clean interface for users to upload their images. The model is reasonably accurate, but I aim to continue refining it as I pick up new skills and techniques!

WORK EXPERIENCE

Quality Assurance Intern (Screening Eagle Technologies)

In the summer of 2023, I took on the role of QA intern at Screening Eagle Technologies. As part of the QA team, I was in charge of finding and fixing bugs, as well as automation of testing suites. Through this internship, I picked up many technical and interpersonal skills, and gained valuable industry experience in working in a team on a large codebase. I was also able to connect with many software professionals, who all provided excellent guidance regarding industry practices.

PROGRAMMING LANGUAGES

ADVANCED: Java, Python, JavaScript, C++

BASIC: C, C#, R

FRAMEWORKS

ADVANCED: React, Next.js, Firebase, chakra, PyTorch

BASIC: TensorFlow

TOOLS AND SOFTWARE

ADVANCED: Git, GitHub, IntelliJ IDEA, PyCharm, VS Code, Visual Studio, Vim, Canva, Krita, Photoshop

BASIC: Colab, Figma, docker