

EZRA TIO

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EDUCATION

National University of Singapore

Aug 2021 - Present

Bachelor of Computing in Computer Science

- Focus area: Artificial Intelligence
- Focus area: Software Engineering
- GPA: 4.34

Serangoon Junior College

Jan 2017 - Oct 2019

'A'-levels

EXPERIENCE

Screening Eagle Technologies (Singapore), Quality Assurance Intern

May 2023 - Aug 2023

- Development of automated test cases, including tests for front-end user interface and back-end functions; programmed multiple test cases for various actions, such as button-pressing, log-in user flow, and other complex actions.
- Coordinated with software engineering team and backend team to write targeted test suites and dummy components.
- Performed user-testing on complicated user flows and interactions.

TECHNICAL SKILLS

- Programming Languages: C++ | Java | SQL | Python | Javascript | R
- Technical: Microsoft Office Suite (Word, PowerPoint, Excel), Git, Github, Google Colab, Photoshop, Jira
- Frameworks: ReactJS, NextJS, Firebase, Pytorch

PROJECTS

Dinosaur Detector

- Developed a dinosaur detection model using a residual network model and transfer learning, hosted on Huggingface's platform.
- Engineered a clean, intuitive user interface for image uploads using create-react-app and MaterialUI.
- Committed to iterative enhancement of model accuracy by applying advanced machine learning techniques.

AI Art Gallery

- Designed an AI Art Gallery using NextJS to archive generative artwork, ensuring compatibility across various devices and screen sizes.
- Incorporated best software engineering practices, including accessibility checks and modern image formats for optimized load times and reduced network strain.
- Integrated a dynamic and responsive gallery interface utilizing React, Chakra-UI, and Framer-Motion for an enhanced user experience.

Password Generator

- Engineered a customizable password generator website with React, allowing users to specify password length from 8 to 64 characters.
- Implemented selectable criteria for passwords, including upper-case letters, numbers, and symbols to increase security.
- Deployed the application on Vercel for robust, scalable hosting with a focus on high availability and performance.

Stable Diffusion Implementation

- Developed a Stable Diffusion model to generate visual content from textual descriptions using an inferential pipeline.
- Employed a combination of image encoder and decoder within the model architecture to produce accurate and coherent image outputs from the text inputs.
- Deployed the AI model on Google Colab, providing a publicly accessible notebook for public use and engagement with the technology.

LEADERSHIP EXPERIENCE

Business Analytics Consulting Team (NUS), Head General Secretary

- Served as the Head General Secretary for the Business Analytics Consulting Team in the National University of Singapore, steering project acquisition and workshop coordination with external clients.