Bryan LU We Zhern

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Internship Open Period: January 2024 – June 2024

EDUCATION

Nanyang Technological University, Singapore   Aug 2021 – Jul 2025
Bachelor of Engineering (Computer Engineering)
- Dean's List for Academic Year 2021/2022
- Expected Honours (Highest Distinction), Current CGPA: 4.64 / 5.0
- Relevant Modules: Data Structures & Algorithms, Data Science & Artificial Intelligence, Software Engineering, Object Oriented Programming, Microprocessor System Design and Development

ACADEMIC PROJECT

Nanyang Technological University, Singapore   Jan 2023 – Apr 2023
SC2006 Software Engineering Project – Designed a web application for restaurant searching
- Coded a web application using HTML, CSS and ReactJS to gather information for over 100 restaurants; implemented web-based application to search for restaurants
- Integrated web application with MongoDB backend API, ensuring smooth user experience and efficient resource usage
- Oversaw project's development efforts to meet scheduled deadlines ensuring project be delivered more than 1 week on-time; contributed up to 40% of the entire group effort

Nanyang Technological University, Singapore   Jan 2022 – Apr 2022
SC1015 Artificial Intelligence Project – Designed a machine learning sentiment analysis model
- Facilitated data preparation process using Pandas, scikit and matplotlib allowing for AI model training
- Created a Python scikit Machine Learning model and analyse information for over 5000 movie reviews; optimise AI model using multi-layer perceptron neural network with nearly 80% accuracy

Nanyang Technological University, Singapore
SC2079 Multidisciplinary Design Project – Designed an Autonomous Robot Car for navigation   Aug 2023 – Nov 2023
- Designed Embedded C programs for controlling STM32 Microcontroller behaviour using FreeRTOS ensuring efficient RAM and flash storage usage and responsive performance
- Integrated STM32 Microcontroller with Raspberry Pi, utilising serial communications to achieve autonomous and efficient navigation of obstacle course

PERSONAL PROJECT

Personal Website Deployed using GitHub Pages   May 2023 – Jul 2023
- Developed a website using HTML, CSS, ReactJS and various assets, hosted on GitHub Pages
- Coded various minigames and tools, gathered personal GitHub repositories information using GitHub's API, display it on website using customised view

WORK EXPERIENCE

Contemporary Centre of Arts, Gilman Barracks   Jan 2023 – Feb 2023
Gallery Sitter
- Facilitated liaison between 4 colleagues and supervisors ensuring smooth communication
- Engaged up to 200 visitors in exhibition sites in 2 languages allowing visitors to gain insights regarding locals' art pieces, including 10 different works of art

Nanyang Technological University College of Engineering   25 Feb 2023
NTU Open House Event Management
- Engaged with prospective students allowing visitors to gain insights into various programmes offered by NTU College of Engineering
- Assisted in event logistics and resource management ensuring smoothness of event

SKILLS

Language: Proficient in English and Chinese, Intermediate in Malay
Digital Skills:
- Proficient in Python, JavaScript, Microsoft Excel, HTML, CSS
- Experienced in Vue, ReactJS, NodeJS, STM32 Embedded Programming
- Moderate in C, C++, C#, Java, git, TailwindCSS
- Novice in using machine learning model training using scikit-python, Tensorflow, PyTorch
- Beginner in: Verilog, Rust, SQL