

# Bryan LU We Zhern

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Website: [bryanluwz.github.io](https://bryanluwz.github.io), GitHub: <https://github.com/bryanluwz>

## 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: 4.66 / 5.0
- Relevant Modules: Data Science & Artificial Intelligence, Software Engineering, Object Oriented Programming, Microprocessor System Design and Development, Applied Cryptography, Application Security, Cyber Threat Intelligence

## WORK EXPERIENCE

Univers Pte. Ltd.

Jan 2024 – Jun 2024

**Frontend Software Engineer Intern**

- Developed reusable components and refactored codebases using HTML, SASS, ReactJS, and TypeScript, in conjunction with public libraries such as Ant Design and Apache ECharts
- Worked independently on assigned task within a distributed team, and collaborated with the team for bug tracking and work allocation using JIRA in an agile work environment
- Deployed developed webpages to pre-production environment using Jenkins, Docker, Kubernetes and in-house development portal

## 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

## SKILLS

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Language: Proficient in English and Chinese, Intermediate in Malay

Digital Skills:

- Proficient in Python, JavaScript, TypeScript, ReactJS, HTML, CSS, SCSS
- Experienced in NodeJS, ExpressJS, Vue, STM32 Embedded Programming, git
- Moderate in C, C++, C#, Java, SQLite
- Novice in using machine learning model training using scikit-python, Tensorflow, PyTorch
- Beginner in: Verilog, Bash