

RYAN TAN JIN YUEN

Mobile: +65 93209262

Email: ryantjy1001@gmail.com

<https://github.com/ryanmoolala>

<https://www.linkedin.com/in/ryan-tan-857558270/>

<https://ryanweb.vercel.app/>

EDUCATION

National University of Singapore (NUS)

Aug 2023 - Aug 2026

Bachelor of Computing in Computer Science

- National University of Singapore Merit scholarship awardee.
- Studying Computer Science, aiming to go for Student Exchange Programme or National University Singapore Overseas College
- Completed Programming methodology modules, Data Structures and Algorithms module.

Anglo Chinese Junior College (ACJC)

Jan 2019 - Nov 2020

Additional Levels Exam Certificate

- Scored 6 distinctions, with 90 Rank Points for an intensive 4H2 academic curriculum.
- On ACJC Honour's Roll list for excellent academic results throughout school period
- Selected to become the Vice-Captain of ACJC Bowling team, demonstrated excellent leadership skills
- Received Edusave EAGLES Award and Scholastic Merit Award

PROJECTS

ReflectiveMinds (NUS Orbital Summer Programme), Full Stack Developer

May 2024 - Aug 2024

- Apollo-11 (Advanced) level AI-integrated web application promoting journaling among adolescents & young adults.
- Developed a AI integrated web application aiming to promote journaling among adolescents & young adults.
- Adopted an Agile environment, with weekly sprints and relied on Git & Github to work with team-mates.
- Utilised Python Flask, MySQL databases, ReactJS framework & Docker services to run the whole web application.
- Leveraged OpenAI API to utilise GPT 3.5 Turbo engine for generating prompts.
- Ensured quality code by performing unit & end-to-end tests using JEST & PyTest & SQLite.

FootballIVision, Solo Developer

Jul 2024

- AI-driven football analysis tool for real-time player detection and image processing, programmed using Python.
- Utilised YOLOV8 object detection algorithm, OpenCV, ByteTrack & SciKit for tracking & colour segmentation.
- Performs player differentiation, ball tracking and object classification to advertise numerical statistics using NumPy.

DJ Lite (Personal Project), Solo Full Stack Developer

May 2024 - Jun 2024

- Developed a Spotify web application to provide users with real-time data and analytics on Spotify listening habits
- Utilised Java Spring Boot, Spring MVC & Maven to communicate with the Spotify server via RESTful APIs.
- Implemented Authorization PKCE Flow, OAuth 2.0, Session management to authenticate users, avoiding cyber threats.

PriceTrack (Personal Project), Solo Full Stack Developer

May 2024

- Developed a stock tracking web application, utilising Web Sockets, and Web Scraping tools to display real time data and relevant information, up to 60 stocks on the NASDAQ exchange.

EXPERIENCE

PSA Code Sprint Hackathon (Singapore), Team Leader

Oct 2024 - Oct 2024

- Lead a team in a 72-hour hackathon focused on improving PSA's port operations, reinforcing adaptability and resilience in PSA's global network.
- Built a web application using Next.js and Python to store and manage real-time weather and cyclone data.
- Implemented alert mechanisms to notify transport personnel of severe weather conditions, improving response times and ensuring safety.

SKILLS QUALIFICATIONS AND OTHERS

- Results-driven individual with excellent communication skills and thrives in team-based environments.
- Robust understanding of programming languages, web development protocols & use of development tools.
- Comfortable working with Java, Python, JavaScript, TypeScript and ready to pick up many more essential languages.
- Frameworks: ReactJS, Flask, Spring, Tailwind CSS, NodeJS.
- Other essential technologies include Git, Github, Docker, MySQL, OpenCV & YOLO.

CO-CURRICULAR ACTIVITIES

NUS Residential College 4, College Students' Committee (Technology Division)

Aug 2023 - Aug 2023

- A community within the Residential College proposes & builds programs to better facilitate student welfare such as informing students on bus arrival timings & seat availability in the dining hall.
- Cooperated closely with 2 other members in the subcommittee to create a telegram bot for managing storage items.