

# Ryan Tan Jin Yuen

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**Portfolio:** ryanweb.vercel.app

## Education

**National University of Singapore (NUS)**

Aug 2023 – Dec 2026

- Awarded **NUS Merit Scholarship** recipient for academic excellence.
- Studying Computer Science, completing exchange program at **Hong Kong University of Science and Technology**.

**Anglo Chinese Junior College (ACJC)**

Jan 2019 – Nov 2020

- Achieved **6 distinctions** with **90 Rank Points**.
- Served as **Vice-Captain** of the ACJC Bowling Team.
- Awarded **Edusave EAGLES Award** and **Scholastic Merit Award**.

## Technical Skills

- **Languages:** Python, Java, JavaScript, TypeScript, SQL, Rust
- **Frameworks & Tools:** Spring Boot, Docker, Kubernetes, Node.js, Flask, ReactJS, Git, AWS
- **Additional:** OpenCV, YOLO, Apache Nifi, Supabase, SonarQube

## Work Experience

**Crédit Agricole (ISAP, Singapore)**

Jan 2025 – Present

Software Engineer Intern

- Developed and optimised a AWS-S3 compatible, scalable **data storage solution** using **Rust**, **PostgreSQL**, **Warp**.
- Built an S3 API emulation layer, enabling compatibility with AWS SDK calls such as GET, PUT, and multipart upload for large files.
- Ensured **99.9% uptime** through rigorous testing and debugging using **Cucumber BDD**.

## Projects & Hackathons

**NUS Hack Roll** — OpenCV, Python, JavaScript, Supabase, Telegram

Jan 2025

- Built a **Telegram bot** to track shower habits, logging over **50 user entries**.
- Used Chrome extension API to retrieve telegram data, preventing site visits for users.
- Implemented QR code-based interactions to start and stop shower sessions.
- Integrated machine learning verification to analyse images, using a YoloV8 object detection algorithm.

**PSA Code Sprint Hackathon** – Node.js, Python, Supabase, OpenAI

Oct 2024

- Led a **72-hour hackathon**, built a Next.js and Python-based port operations platform.
- Designed a real-time data pipeline integrating weather forecasts, historical events, and news using XWeather, OpenWeather, and OpenAI APIs.

- Planned feature enhancements, including user authentication and personalised alerts based on geographic location.

**ReflectiveMinds** – React.js, Python, Flask, MySQL

May 2024 – Jun 2024

- Developed an **AI-powered journaling app**, classified as **Apollo-11 (Advanced)** level.
- Utilised Python Flask, MySQL databases, ReactJS framework Docker services to run the whole web application.
- Integrated OpenAI API, to auto generate journaling prompts.
- Achieved **80% test coverage** through unit and end-to-end testing using JEST, PyTest and SQLite.

**FootballVision** – Python, OpenCV, Ultralytics

May 2024 – Jun 2024

- Created an **AI-driven football analysis tool** for real-time player detection and image processing, programmed using **Python**.
- Implemented **YOLOV8** object detection algorithm, **OpenCV**, **ByteTrack**, **SciKit** for tracking and colour segmentation.
- Implemented player tracking and object classification with **95% accuracy**.