

Tan Swee Yang

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Education

Universiti Tunku Abdul Rahman

May 2020 – May 2024

Bachelor Of Science (Honours) Software Engineering

- **Latest GPA:** 3.34/4
- **Coursework:** Web Application Development, Quality Assurance, Software Testing, Software Design, Data Structures, Database System, Object Oriented Programming, Artificial Intelligence
- **Awards:** Academic Improvement List

Skills

Languages: Java, PHP, C#, Python, SQL, JavaScript, Visual Basics, VBA

Technologies: JUnit, Mockito, Git, Maven, Docker, Jenkins

Tools: IntelliJ, PyCharm, Jupyter, Eclipse, Visual Studio Code, Visual Studio, Unity

Experience

Trainee | Yokogawa Kontrol Malaysia

Oct 2023 – Jan 2024

Performed self-directed learning on C#, Rest API, and .NET framework and assisted in installing software according to documentations.

- Developed an industry level BuberBreakfast API following REST API architecture, guided by a course created by a Microsoft developer.
- **Acquired foundational knowledge in API development using C# and gained insights into the architecture of REST API.**

Projects

MyDay Database Backend | Java REST API

June 2024 – Current

[GitHub](#)

Developed, tested, and containerized a REST API for a productivity app that maximizes the productivity of busy individuals using Zenith algorithm with Java, Spring Boot, Maven, Docker, and Git.

- Applied MVC architecture, appropriate interfaces, and object-oriented concepts.
- Applied test-driven development with integration testing using JUnit and MockMVC.
- **Delivered a thoroughly tested codebase that is clean, scalable, maintainable, and robust.**

Human-in-the-loop RL for Emotion Recognition

Jan 2023 – Jan 2024

[Publication](#)

Introduced TS-QL-HF that enhanced the accuracy of a facial emotion recognition system by integrating human feedback as a refined reward function into q-learning.

- TS-QL-HF does not need an extensive dataset to include minority populations, ensuring fairness and avoiding discrimination.
- **TS-QL-HF achieved the accuracy of 99% while improving the convergence rate of its predecessor without requiring any new data.**

I'm not a robot | Java Discord Bot

May 2022 – Jan 2023

[GitHub](#) | [Bot Invite Link](#)

Developed, tested, documented, and hosted a Discord bot with functions such as translation, dictionary, and currency conversion using Java, Maven, Git, JUnit, Javadoc, and DisCloud.

- Applied layered architecture, design patterns, clean code, and object-oriented concepts.
- Applied test-driven development with unit testing and integration testing using JUnit.
- **Delivered a thoroughly tested codebase that is clean, scalable, maintainable, and robust.**