

# TAN JIA HAO ISAAC

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## EDUCATION

### NANYANG TECHNOLOGICAL UNIVERSITY

Aug 2022 - Jun 2026 (Expected)

Bachelor of Engineering (Computer Engineering)

- CGPA 4.30 (Accelerated Bachelor Programme)
- Relevant coursework: Introduction To Data Science And Artificial Intelligence, Object Oriented Design And Programming, Data Structure & Algorithms, Algorithm Design & Analysis, Software Engineering

### RIVER VALLEY HIGH SCHOOL

Jan 2014 - Dec 2019

GCE A Levels

## SKILLS

### Technical Skills

Python (Pandas, NumPy, Scikit-learn, Seaborn, Selenium), C, Java, React, Node, Express, MongoDB, SQL, Photoshop, Lightroom, InDesign

## PROJECTS

### Telegram Timetable AI Bot

Feb 2024

- Developed a Telegram bot in Python utilising OpenAI's GPT-4 API to assist users in planning their daily activities.
- Implemented functionality to input activities in various formats, including duration or specific time periods.
- Employed prompt engineering on OpenAI's GPT-4 API.
- Created for NTU TechFest Hackathon 2024.

### Ecommerce Website Project

Jan 2024 - Present

- Use MERN stack to create an ecommerce website.

### Portfolio Website

Dec 2023

- Developed a personal website using React framework to showcase professional portfolio, projects, and skills.
- Keeping in mind responsive web design.

### NTU STARS Bot

Nov 2023

- Automated the process of securing desired class timetables using Selenium and Python scripting.
- Utilised browser automation to navigate through the NTU STARS system and register for specific modules.
- Successfully secured desired class timetables through efficient sniping of popular module time slots.

### School Camp Management System

Aug 2023 - Nov 2023

- Developed a command-line interface application in Java to streamline the management of school camps.
- Utilized the Apache library for efficient data manipulation and storage.
- Demonstrated proficiency in object-oriented programming principles, ensuring a well-structured and scalable project architecture.

### Steam Game Quality Predictor

Jan 2023 - May 2023

- Leveraged Pandas, NumPy, Scikit-learn, and Seaborn to develop a predictive model.
- Explored various machine learning algorithms including logistic regression, decision trees, and random forest.
- Determined that conducting cross-validation grid search on a random forest model with balanced sampling yields optimal predictive performance on our dataset.