TAN JIA HAO ISAAC

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EDUCATION

NANYANG TECHNOLOGICAL UNIVERSITY, Singapore   Aug 2022 - Jun 2026 (Expected)

Bachelor of Engineering (Computer Engineering)

- CGPA 4.30 (Accelerated Bachelor Programme)
- Relevant coursework: Discrete Mathematics, Linear Algebra, Probability And Statistics, Introduction To Data Science And Artifical Intelligence, Object Oriented Design And Programming, Data Structure & Algorithms, Algorithm Design & Analysis, Software Engineering

SKILLS

Technical Skills   Git, Python (Pandas, NumPy, Scikit-learn, Seaborn, Selenium), C, Java, React, Node, Express, MongoDB, SQL, PyTorch, UiPath, Docker, Photoshop, Lightroom, InDesign

PROJECTS

Telegram Timetable AI Bot   Feb 2024

- Created a Telegram bot in Python, employing prompt engineering on OpenAI's GPT-4 API to assist users in planning daily activities.
- Implemented functionality to input activities in 2 formats, duration or specific time block for a 24h period.
- Created for NTU TechFest Hackathon 2024, working in a team of 2.

Ride Matching Web App   Jan 2024 - Present

- Constructed backend, use Django to connect the React frontend and Postgre database.
- Conceptualised and presented idea of application, with integration of Google Maps API.

Portfolio Website   Dec 2023

- Developed a personal website using React framework to showcase professional portfolio, projects, and skills
- Keeping in mind responsive web design, making website suitable for both desktop and mobile.

NTU STARS Bot   Nov 2023

- Automated process of securing desired class timetables using Selenium and Python scripting.
- Utilised browser automation to navigate through the NTU STARS system and register for 7 specific modules.
- Secured desired class timetables through efficient automated swapping between 2 popular time slots.

School Camp Management System   Jan 2023 - May 2023

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

LEADERSHIP

Hall 2 PNP (Sub-committee)   Aug 2022 - Present

- Lead planning and execution of photography efforts for various hall events across 2 years.

WORK EXPERIENCE

SINGAPORE ARMED FORCE (Signals Specialist)   Aug 2020 - Nov 2021

- Troubleshot CCNA networking equipments, crucial for maintaining seamless communication uptime.