

Guo Yichen

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Internship Objective

Seeking to apply for a Software Engineer Internship (**from May to Aug 2025 with further semester credit-bearing availability**) in your organization. A self-motivated and detail-oriented team player, proficient in full-stack software development, eager to contribute to dynamic projects and apply expertise in real-world scenarios.

Education

Nanyang Technological University, Singapore

Aug 2023 – May 2027 (Expected)

Bachelor of Computing (Honours), Computer Science with 2nd Major in Business

- ❖ Honors (Highest Distinction) (Current) | GPA 4.80/5
- ❖ Relevant Coursework - Object Oriented Design & Programming, Data Structures and Algorithms
- ❖ Online Module - Google Advanced Data Analytics, IT Support, Program Management (Coursera)

Skills

- ❖ Programming: JavaScript, HTML5, CSS3, Python, Java, C, R
- ❖ Full-stack Development: React.js, Bootstrap toolkit, Chrome browser plugin development, Node.js
- ❖ Data Analytic: Data Visualization, Data Cleaning, Machine Learning (Pandas, Numpy, Tensorflow)
- ❖ Database: MySQL, MongoDB; experience with query optimization and database schema design
- ❖ Language: Proficient in English, Chinese, French (intermediate)

Work Experience

Nanyang Technological University, Singapore

Aug 2024 – May 2025

Research Assistant at MICL Lab

- ❖ Join under the URECA undergraduate research program, aim at develop an innovative visual analytics method through the Web3 and tech frontiers.
- ❖ Design interactive, scalable interface using React.js toolkit, enhancing adaptability for analysing complex data networks, contributing to the lab's research on advanced data visualization techniques.

Project Work

Visual Analytics for Money Laundering Detection in Cryptocurrency

Aug 2024 – Dec 2025

- ❖ Develop an innovative visual analytics method that integrates AI with human expertise to detect money laundering patterns in cryptocurrency transactions, increasing detection efficiency by 25%.
- ❖ Design and implement an interactive, scalable interface using JavaScript and D3.js, enhancing user engagement and adaptability for analyzing complex transaction networks.

Auto Course Registration Chrome Plugin

Feb 2024

<https://github.com/iNTUition-10/ORBITs>

- ❖ Designed a browser plugin to automatically allocate students' preferred course slots, preventing timetable conflicts and improving course selection efficiency for over 1000 NTU students.
- ❖ Developed using Google Chrome Plugin APIs with core processing in JavaScript, and UI components built with HTML, JS, and CSS; implemented webpage injection and automation through Google Chrome APIs to streamline the registration process.

The Wild Oasis Hotel Management App

Sep 2024

<https://github.com/SunnyRaymond/the-wild-oasis>

- ❖ Developed a web app for hotel staff to manage cabins, bookings, and guest information, utilizing Supabase for real-time database and React with advanced techniques like React Query.
- ❖ Key features include user authentication, profile management, booking and cabin management, real-time updates, and interactive data visualization using D3.js, along with a dark mode for a personalized experience.