Guo Yichen

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Internship Objective

Seeking to apply for a Software Engineer (Frontend) 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 JavaScript, React.js, and web development, eager to contribute to dynamic projects and apply frontend expertise in real-world scenarios.

Education

Nanyang Technological University, Singapore   **Aug 2023 – May 2027 (Expected)**
Bachelor of Computing (Honours), Computer Science

❖ Honors (Highest Distinction) (Current) | GPA 4.80/5
❖ 2nd Major in Business
❖ Relevant Coursework - Object Oriented Design & Programming, Data Structures and Algorithms
❖ Online Module - Google Advanced Data Analytics (Coursera), Software Engineering (Goldman Sachs)

Achievements

❖ NTU Science and Engineering Undergraduate Scholarship (2023)
❖ iNTUition10.0 Hackathon First Prize Winner (2024)

Skills

❖ Programming: JavaScript, HTML5, CSS3, Python, Java, C, R
❖ Web Development: React.js, Bootstrap toolkit, Chrome browser plugin development
❖ Data Analytic: Data Visualization, Data Cleaning, Machine Learning (Pandas, Numpy, Tensorflow)
❖ 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.

Beijing Tianzhi Qiancheng Education Technology Co., Ltd. (China)   **Jun 2022 – Sep 2022**
Assistant Intern (Part-Time)

❖ Collaborated in developing comprehensive lesson plans to meet curriculum standards, with a focus on enhancing learning outcomes for over 200 students.
❖ Analysed educational content performance using data analytics tools, increasing user engagement and improving test outcomes by 10% through targeted social media support and content optimization.

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.

Blockchain-powered Second-Hand Marketplace   **Aug 2024**

https://github.com/EricFan2002/VeCycle

- ❖ Developed a C2C marketplace for trading second-hand goods using cryptocurrency, rewarding users with b3tr tokens for resolving disputes, increasing user participation.
- ❖ Implemented a smart contract-based escrow system for secure transactions, integrating AI-driven arbitration, reducing dispute resolution time by more than half.

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 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.

Digital Integrated Circuit and Chip Design   **Jun 2022 – Sep 2022**

- ❖ Applied VerilogHDL for hardware description of integrated circuits, gaining proficiency in ARM microprocessor architecture, addressing modes, and microcode operations, while performing waveform simulations using ModelSim.
- ❖ Designed and customized an enhanced Universal Asynchronous Receiver-Transmitter (UART) protocol in VerilogHDL, allowing user-defined serial frame data transmission parameters, improving transmission efficiency by 20% in simulated tests.

Leadership Experiences

Chinese Society of NTU   **Aug 2023 – Jun 2024**

Organizer and actor of Annual Crosstalk Party

- ❖ Acted in the Annual Crosstalk Party, co-writing engaging scripts and developing memorable characters, focusing on humor and strong audience connection, contributing to a 15% increase in event attendance.
- ❖ Collected audience feedback for performance improvements and maintained engagement post-event through follow-up communications, attracting 20% more users than past years.

China-Europe Business Association   **Jun 2022 – Aug 2022**

Assistant Director of Youth Mock Diplomacy Conference 2022

- ❖ Hosted the 3-day conference session as WHO Assistant Academic Director, maintain a smooth running of the committee and inspire delegates through collaborative paper documents.
- ❖ Led a team of 50+ delegates, improving overall conference engagement through well-structured debates floor and comprehensive individual feedback sessions.