WINSTON LIM

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EDUCATION

National University of Singapore   **Aug 2021 - Apr 2025**
Bachelor of Computing
Computer Engineering Major (Year 3)
Relevant Coursework: Computer Engineering Principles and Practice(A), Object Oriented Programming in Java(A), Software Engineering (A-), Database Systems(A-)

TECHNICAL SKILLS

- Experienced Languages: C/C++, TypeScript/JavaScript, Java, SQL, HTML/CSS
- Frameworks/Stacks: MERN, NextJS, GraphQL, PostgreSQL
- Tools: Jest

WORK EXPERIENCE

TikTok - Trust and Safety, Software Engineer Intern   **May 2023 - Present**
- Orchestrated design and execution of multiple migrations, including adoption of a new package manager (pnpm) and web framework (ModernJS), resulting in overall system performance improvements and 100% compliance adherence in Q2.
- Mitigated technical debt by incrementally refactoring crucial parts of codebase, involving creating modern, performant, and reusable components leading to improved code quality and maintainability while supporting new business needs.
- Delivered presentations on various technical subjects, such as React internals (renderer), bundlers, and modern state management, showcasing in-depth knowledge and expertise in these areas.

Binance - Payments, Software Engineer Intern   **Dec 2022 - Apr 2023**
- Authored comprehensive documentations for critical components of internal libraries utilized across more than 100 projects at Binance, facilitating seamless collaboration and knowledge sharing.
- Designed and implemented a new onboarding flow for Binance Merchants (http://merchant.binance.com), resulting in a significant 66% quarter-over-quarter increase in merchant transaction volumes.
- Conceptualized and proposed gradual adoption of a modern state manager (Zustand), leading to better performance and a potential reduction in state management bundle size of over 90%.

National University of Singapore (NUS), Undergraduate Teaching Assistant **Jan 2023 - Apr 2023**
- Managed and collaborated with other tutors to conduct weekly tutorials for a class of 20 students achieving a top 10% teaching rating in the School of Computing.
- Taught module(s): CS2030 Introduction to Object Oriented Programming in Java.

Bossjob.PH, Software Engineer Intern (NextJS, React, Redux)   **May 2022 - Jul 2022**
- Spearheaded development of Bossjob 2.0 platform (http://bossjob.ph), catering to a user base of over 2 million registered users and expanding.
- Conducted research and experimentation to enhance client performance in regions with limited network connectivity, resulting improvements in all 3 core vitals.
- Led proposal and implementation of development workflow enhancements, such as adoption of PR templates, leading to enhanced code review quality.

PROJECTS

Project Alex, Firmware Developer   **Jan 2022 - May 2022**
- Led a team of 3 other members as part of a module in NUS Computer Engineering titled "Engineering Principles and Practice II".
- Prototyped and constructed a search and rescue robot running on self-written libraries for serial communication, navigation and controls written in bare metal.
- Integrated with ROS to facilitate communications across a series of embedded microcontrollers such as Arduino Uno, RPi 3 and LIDAR.