

## WORK EXPERIENCE

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### **TikTok – Backend Engineer Intern, Risk Prevention**

**Jan 2024 - Present**

- Built Change Data Capture (CDC) ETL pipelines to aggregate data into Hive and ClickHouse tables for BI/DA.
- Built a Go service that anonymizes and aligns identifiers shared across teams to enable data pipelines to function in compliance with privacy laws.
- Skills: Golang, gRPC, MySQL, Apache Thrift, Apache Hive, ClickHouse

### **TikTok - Fullstack Engineer Intern, Web Infrastructure**

**Aug 2023 – Dec 2023**

- Built a low-code solution for constructing and releasing JSON (DSL) configuration files to reduce development time of features by over 50%.
- Developed a branching feature that to enable merging configurations to crucially mitigate race conditions and implemented a preview environment to prevent production errors.
- Skills: Typescript, Node.js, Nest.js, MongoDB, Webpack Module Federation, React.js

### **TikTok – Frontend Engineer Intern, Product**

**May 2023 – Jul 2023**

- Built the web client to support content moderation operations on various media (video, user) on an internal platform.
- Implemented multiple crucial build migrations, including adoption of new package manager (PNPM) and web framework (ModernJS) to gain improvement in overall performance and achieve 100% compliance adherence in Q2.
- Skills: Typescript, Webpack, Modern.js, React.js, Redux.js

### **Binance - Software Engineer Intern, Product**

**Dec 2022 - Apr 2023**

- Built the entire onboarding flow at Binance Merchants to optimise the application flow and user experience resulting in a 66% quarter-over-quarter surge in merchant transaction volume.
- Designed and implemented the incremental adoption of a modern state manager (Zustand), leading to better performance and a potential reduction in state management bundle size of 90%.
- Skills: Typescript, React.js, Redux.js, Zustand

### **National University of Singapore - Undergraduate Teaching Assistant**

**Jan 2023 - Apr 2023**

- Taught Introduction to Object Oriented Programming in Java.
- Managed and collaborated with other tutors to deliver weekly tutorials for a class of 20 students, fostering a collaborative and interactive learning environment.
- Achieved a top 10% teaching rating of 4.7 / 5.0 in the School of Computing, demonstrating exceptional instructional skills and mastery over taught topic.

## EDUCATION

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### **National University of Singapore**

**Aug 2021 - Apr 2025**

### **Bachelor of Engineering in Computer Engineering**

- Relevant Coursework: Computer Engineering Principles and Practice(A), Object Oriented Programming in Java(A), Software Engineering (A-), Database Systems(A-)

## TECHNICAL SKILLS

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- Experienced Languages: C/C++, TypeScript/JavaScript, Java, Golang, SQL, HTML, CSS
- Frontend Technologies: React.js, Redux.js, Zustand, Next.js, Webpack, GraphQL
- Backend Technologies: PostgreSQL, MySQL, MongoDB, Apache Thrift, gRPC, Node.js, Express.js, Apache Hive, ClickHouse