

WORK EXPERIENCE

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 data anonymizer service that aligns anonymized First Party Identifiers across teams enabling all data pipelines to work properly while being compliant with user privacy laws.
- Skills: Golang, gRPC, MySQL, gRPC, Apache Thrift, Apache Hive, ClickHouse

TikTok - Fullstack Engineer Intern, Web Infrastructure

Aug 2023 – Dec 2023

- Built a low-code web client/server for constructing and releasing JSON configuration files to reduce development time of building UI configurations by over 50% and enables collaboration with non-technical stakeholders.
- Developed a branching feature that to enable merging configurations to crucially mitigate release overwrites and developed a preview environment to prevent production errors.
- Skills: Typescript, Node.js, MongoDB, Redis, Webpack Module Federation, React.js

TikTok – Frontend Engineer Intern, Product

May 2023 – Jul 2023

- 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.
- Refactored crucial parts of codebase with modern, performant, and reusable components to reduce technical debt and enhance code quality and maintainability.
- Skills: Typescript, Webpack, Modern.js, React.js, Redux.js

Binance - Software Engineer Intern, Product

Dec 2022 - Apr 2023

- Rebuilt the entire onboarding flow for Binance Merchants to streamline the application flow and enhance 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

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

- 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