

Tan Lip Wei

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Education

National University of Singapore

2022-2025

B. Comp (Hons) in Computer Science **CAP 4.93/5.0**

NUS Merit Scholar

Experience

TikTok - Software Engineer Intern (Full Stack)

Aug 2023 - Present

- Full-stack development in the Cloud Infrastructure Team. Support the migration of private to public cloud across Bytedance software
- Migration of Frontend for multiple storage services with React onto Public Cloud interface
- Developed backend endpoints in Golang to call public cloud interface for the support of 6 different services

Handshakes by DC Frontiers - Software Engineer Intern (Backend)

May 2023 - Aug 2023

- Developed and deployed code fix for ETL batch job handling daily delta files with millions of rows into production servers
- Worked on provisioning multiple AWS DynamoDB servers with Terraform as Infrastructure as Code
- Developed an Authentication server in C# as a prototype server for the request of a widget
- Handled migration of production database on SQL Server with minimal downtime

Skilio - Software Engineer Intern (Full Stack)

Jan 2022 - Oct 2022

- Pioneered the Front-end development and migration of existing Angular project to new React project
- Constructed shared UI library of React components for a Micro Front-end Application to reduce development time
- Integrated React front-end with back-end through the Apollo graphql platform with GraphQL code generation
- Developed a CICD pipeline with Gitlab Actions to automate building, testing and deploying project to Cloud Run

Works - Software Engineer Intern (Frontend)

Nov 2021 - May 2022

- Accelerated product development of the User Authentication feature leading to over 100 new applications in a month
- Optimised Lighthouse score by 40-50% by analysing tests and implementing features, improving load times and accessibility
- Led SEO optimisation efforts through development of an automated service to dynamically generate sitemaps and head tags resulting in a 90% improvement in Semrush's site health
- Implemented i18n internationalisation into application to enable translation for website in 5 languages

Commercehulk - Software Engineer Intern (Frontend)

Aug 2021 - Nov 2021

- Developed User Authentication Feature with React, NestJS and MongoDB.
- Created reusable UI components built on Material UI with Sass and packaged into a custom library

Projects/ Extracurriculars

Show Projects - (<https://show-projects.com>)

Mar 2023 - Present

- Platform for individuals/ teams to share their projects and receive feedback
- Built with Next.js and TRPC, linked to AWS RDS. Styled with Radix-ui and Tailwindcss

NUS Enterprise Summer Programme in Entrepreneurship

Jul 2023

- Representing NUS as a Student Ambassador Scholar in a 2-week international entrepreneurship programme

TikTok Tech Immersion Programme

May 2023 - Jun 2023

- 2 month programme - TikTok infrastructure, Server, Quality Assurance and Site Reliability engineering skills
- Developed a Backend instant messaging system in Golang with Kitex RPC Framework and Redis database

Personal Portfolio Page - (<https://tanlipwei.com>)

Mar 2023

- Terminal styled front-end project showcasing my personal portfolio

Hack For Good 2023 - University level Hackathon Finalist

Feb 2023

- Web Platform built with React, FastAPI and PostgreSQL; helps to connect Employers with Kidney patients

Stocks Portfolio Tracker

Aug 2021 - Nov 2021

- Portfolio tracker for stocks, retrieving stock data from an online API; Aggregated data into user-friendly format

Skills

Programming Skills: Typescript, Javascript, Java, Python, C, Go, HTML, CSS, SCSS

Libraries and Frameworks: React, Angular, NextJS, Express, NestJS, Node.js, SQL, MongoDB, Git, Tailwind, Bootstrap

Cloud: AWS, Google Cloud, Firebase, Docker

Languages: English, Chinese