

Tan Lip Wei

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Education

National University of Singapore

2022-2026

Double degree in Computer Science and Business Administration

NUS Merit Scholar

Victoria Junior College

2018-2019

GCE A-Levels 90 RP, H3 Mathematics Merit

Experience

Works

Nov 2021 - May 2022

Front-end Web Developer Intern

- Led a team of 3 to accelerate product development of the Authentication and Application modules which led to over 100 new applications in a month
- Optimisation of application's Lighthouse score by 40-50% by analysing tests and implementing features, improving load times and accessibility
- Led SEO optimisation efforts through the development of an automated service to dynamically generate sitemaps and head tags resulting in a 90% improvement in Semrush's site health
- Developed REST API endpoints and connected them to a MongoDB database using CRUD and aggregation operators
- Built utility libraries and functions for future use and to improve code reusability while reducing App's bundle size
- Dockerised application and pushed to Google Cloud Container Registry for deployment
- Entrusted by Director to conduct weekly reviews and assessment of code quality by onboarding interns
- Technologies leveraged includes Typescript, Angular, SCSS, RxJS, Reactive Forms, Node.JS, Express, AWS S3, MongoDB, Firebase, Docker, Google Cloud

Skilio

Jan 2022 - Present

Full-stack Developer Intern

- Led the Front-end development and migration of React project from existing Angular project
- Developed 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
- Integrated graphql code generation to reduce code repetition and code type safety
- Created custom hooks to refactor common state management
- Developed a CICD pipeline with Gitlab Actions to automate building, testing and deploying project to Cloud Run
- Technologies leveraged includes Typescript, React, NextJS, Apollo, GraphQL, Tailwindcss, Node.JS, Express, NestJS, Firebase, Docker, Google Cloud

Projects

User Authentication System

May 2021 - Sep 2021

- Developed a user authentication system through the use of JWT tokens, encryption and cookie storage
- Built the backend API with NestJS and frontend with React
- Validated user input from frontend and stored in MongoDB
- Implemented Passport.js strategies as an authentication middleware
- Implemented route guards to protect routes and resolvers to manage the transfer of data

Portfolio Tracker

Aug 2021 - Nov 2021

- Created a portfolio tracker for stocks that retrieved stock data from an online API
- Allowed user input of stock tickers, purchase date, price and quantity with multiple portfolios
- Stored data using MongoDB CRUD operations
- Backend API uses MongoDB aggregate pipeline to clean and return summarised data to front-end

Skills

Programming Skills: Typescript, Javascript, Python, HTML, CSS, SCSS

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

Cloud: AWS, Google Cloud, Firebase, Docker

Languages: English, Chinese