

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

Skilio

Jan 2022 - Oct 2022

Full-stack Developer Intern

- 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
- Integrated graphql code generation library to reduce code repetition and code type safety in codebase
- Created custom hooks with React to refactor common state management
- Developed a CICD pipeline with Gitlab Actions to automate building, testing and deploying project to Cloud Run
- Technologies leveraged: Typescript, React, NextJS, Apollo, GraphQL, Tailwindcss, Node.JS, Express, Nest.JS, Firebase, Docker, Google Cloud

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 leading 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 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 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: Typescript, Angular, SCSS, RxJS, Reactive Forms, Node.JS, Express, AWS S3, MongoDB, Firebase, Docker, Google Cloud

Projects

SG Universities

Nov 2022 - Current

- Web app showcasing different universities in Singapore, summarising graduate employment data for different courses
- Handled project with proper git workflows to manage changes and development
- Managed creative and design aspects of project using Figma while collaborating with freelance designers
- Built web application with Next.js and in built api features
- Automated CICD with github actions to test, build and deploy project
- Deployed project and automated deployment with Netlify

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
- Designed user authentication system through use of JWT tokens, encryption and cookie storage
- Designed system with 2 code bases with backend API on NestJS and frontend on React
- Validated user input from frontend with resolvers and stored in MongoDB
- Implemented Passport.js strategies as an authentication middleware to validate requests
- Implemented route guards to protect routes and resolvers to manage transfer of data
- Created a portfolio tracker for stocks by retrieving stock data from an online API
- Backend API uses MongoDB aggregate pipeline to clean and return summarised data to front-end
- Technologies leveraged: Passport.js, JWT, encryption, cookie storage, NestJS, REST api, MongoDB

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