

Nicholas Yong Jin Yu

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, Bash

Frontend: React.js, Next.js, Vue.js, Nuxt.js, HTML/CSS, Tailwind CSS

Backend & Tools: Node.js, Express.js, GraphQL, SQL, Supabase, Redis, Docker, Jest, Playwright

EXPERIENCE

BandLab Technologies

Jul 2024 – Jul 2026

Full Stack Web Developer

- Built and maintained modern full-stack web applications using **React**, **TypeScript**, **Next.js**, **GraphQL** and **Tailwind CSS**, ensuring clean architecture and maintainable codebases
- Architected and led the development of a headless CMS using **Next.js**, increasing user traffic by 50% through improved dynamic content delivery and SEO optimization
- Enhanced frontend performance by migrating from REST API to **GraphQL**, streamlining data retrieval and reducing payload sizes to achieve 35% lower server costs and improved SEO
- Implemented server-side authentication using **Supabase**, ensuring secure user management and seamless authentication flows across applications

foodpanda

Oct 2022 – Mar 2023

Software Engineer Trainee

- Developed and maintained **React** applications with **TypeScript**, implementing comprehensive testing strategies using **Jest** and **Cypress**
- Reduced false-positive test failures by 85% by implementing an automated retry mechanism and optimizing API timeout handling in the Jest/Cypress suite
- Involved in setting up CI/CD pipeline with bash script and GitHub Actions to automate unit testing and deployment which increased the team's productivity

PROJECTS

Vue.js Portfolio Website | *Nuxt.js, Tailwind CSS, Playwright, Vitest, Docker*

Mar 2024 – Apr 2024

- Developed a mobile-responsive portfolio website using **Nuxt.js** and **Tailwind CSS**, utilizing server-side rendering to improve web performance and enhance user experience
- Utilized **Playwright** for end-to-end tests and **Vitest** for unit tests to ensure code quality and reliability
- Created a CI/CD pipeline with GitHub Actions to automatically run all tests and deploy the web application to a live production environment on AWS Amplify Hosting Platform

Voucher Management Portal | *TypeScript, React, Node.js, PostgreSQL, Redis*

Mar 2023 – Oct 2023

- Developed a responsive React/TypeScript frontend for a voucher management system, implementing complex state management for real-time CRUD operations
- Engineered the back-end architecture with **Node.js** and **PostgreSQL** for seamless voucher storage and manipulation
- Established an automated CI/CD workflow through **GitHub Actions** and **Docker**, enhancing efficiency in building and deploying processes for production

EDUCATION

Singapore Institute of Technology

Sep 2019 – Oct 2022

Bachelor of Engineering with Honours in Aircraft Systems Engineering

Certification: CS50: Introduction to Computer Science