

Tan Wei Yan

FRONTEND-LEANING FULL STACK DEVELOPER

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Full stack developer with 5+ years shipping performant, accessible web products — from pixel-level UI to CI/CD pipelines — across entertainment platforms, enterprise systems and freelance ERP work. Comfortable end-to-end: Next.js and Nuxt.js on the frontend, Nest.js, Laravel and Prisma on the backend, with a habit of automated testing, CI/CD and chasing Lighthouse scores.

KEY SKILLS

Languages	JavaScript, TypeScript, HTML, CSS, PHP, Python, Java, C#, C++
Frameworks	React.js, Next.js, Vue.js, Nuxt.js, Nest.js, Laravel, React Native
Data	MySQL, PostgreSQL, MongoDB, Firebase, Prisma ORM
Tooling & DevOps	Docker, Kubernetes, AWS, Azure DevOps, GitLab CI, Playwright, JUnit, Jira

PROFESSIONAL EXPERIENCE

Nettium Sdn Bhd — Front End Developer Dec 2024 – Present

- Built features and UI for a high-traffic, multi-platform entertainment ecosystem in Next.js serving thousands of concurrent users across desktop and mobile.
- Lifted Lighthouse Performance, Accessibility and SEO scores through asset optimization and semantic HTML restructuring.
- Architected automated testing (Playwright E2E, JUnit unit) for zero-regression deployments; integrated third-party SDKs while maintaining platform stability.
- Ran the CI/CD lifecycle via Azure DevOps and Azure Repos to containerized Kubernetes deployments; leveraged AI-assisted tools (Cursor) to accelerate development, code review and debugging.
- Collaborated in an Agile/Jira environment with cross-functional teams to turn requirements into scalable solutions.

Freelance Projects — Full Stack Web Developer Jan 2023 – Jun 2025

- Engineered modular ERP components in Next.js and Nest.js for complex business workflows and data management.
- Built a React Native companion app extending ERP access to field-based users, syncing real-time data with the desktop app.
- Ran Docker, Kubernetes and GitLab-Runner pipelines on AWS to automate deployment and testing cycles.
- Built a Next.js + AWS Lambda + EventBridge automation pipeline to trigger on-demand scaling of EKS/RDS resources, with Discord webhook alerts for infrastructure status.

Beyondsoft (Malaysia) Sdn Bhd — Front End Developer Dec 2023 – Dec 2024

- Developed and optimized enterprise frontends (AiX and Admin systems) using Vue.js, Nuxt.js and Pinia for state management.
- Built and maintained RESTful APIs in Nest.js for fast, reliable frontend-to-backend data delivery.
- Used Prisma ORM with PostgreSQL to model data and cut query latency for internal reporting tools.

Redpoint Technologies Sdn Bhd — Junior Developer → Developer Aug 2021 – Nov 2023

- Delivered responsive web applications using React.js, Nest.js and Laravel with a focus on user-centric design.
- Engineered interactive games with Unity (C#) and Cocos Creator (TypeScript) reaching a global audience.
- Built real-time multiplayer features with Node.js and Socket.io for concurrent data streams.
- Automated data acquisition with Cheerio.js web scraping; maintained legacy PHP APIs for stable data exchange.

Sparksoft Sdn Bhd — Full Stack Web Developer (Intern) Oct 2020 – Jan 2021

- Assisted frontend UI development with Vue.js and Nuxt.js.
- Supported backend feature implementation in Laravel for client-facing web applications.

PROJECTS

RankIt — Anonymous Group Ranking App

[rank-it.wy-apps.dev](#)

Next.js · Supabase · PostgreSQL · dnd-kit · Framer Motion · Vitest

Real-time app where small groups anonymously rank members via drag-and-drop; a live waiting room tracks submissions before results are revealed. Postgres row-level security and an atomic RPC submission function enforce anonymity and prevent partial or duplicate ballots at the database layer.

Enterprise Resource Planning (ERP) Suite

Next.js · Nest.js · React Native · Redux · Sequelize · MySQL

Full-stack ERP with a modular architecture for business workflows, plus a React Native companion app. Redux-driven state kept multi-step financial and admin modules consistent across mobile and desktop.

Real-Time WebGL Game Engines

Cocos Creator · TypeScript · Socket.io · Unity (C#) · PHP

Browser-based multiplayer games; migrated from Unity to Cocos Creator to stabilize WebGL delivery and cut bundle size, without breaking live multiplayer sync via Socket.io.

Personal Portfolio

[portfolio.wy-apps.dev](#)

Next.js · Tailwind CSS · Responsive Design

Rebuilt from a 2021 Nuxt.js project into a Next.js + Tailwind showcase built around modern UI/UX and mobile-first responsiveness — a live demonstration of frontend performance and clean-code practice.

Profiling Student Performance Using Clustering — Final Year Project, UTAR, 2021

Python · R · WEKA · Data Mining

Collected and processed student project records in Python and R, then ran clustering in WEKA to profile performance patterns — giving lecturers a data-backed way to spot different student types early.

EDUCATION

Universiti Tunku Abdul Rahman (UTAR), Sg Long, Selangor

2018 – 2021

B.CS (Hons) Software Engineering — CGPA 3.3759, Honours Degree with Merit

LANGUAGES

English · Mandarin · Bahasa Melayu