

# Wong Yi Ming Victor

Software Engineer — Full Stack

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## Summary

Software engineer with 2+ years of experience delivering production React and TypeScript applications, with hands-on exposure across the full stack including API development and database integration. Experienced in building scalable user interfaces, integrating third-party APIs, and collaborating in Agile team environments. Comfortable taking ownership from system design through to deployment.

## Experience

**Technology Associate (Protege)**, KWSP/EPF Sept 2026 – Present

- Initiating development of an AI-powered test case generation system using agentic AI (Microsoft 365 Copilot) integrated with BrowserStack, reducing manual UAT effort
- Conducting UAT execution and defect tracking across enterprise financial systems
- Navigating governance and security constraints to deliver a proof of concept within a highly regulated GLC environment

**Team Lead**, Kabel's Digital Acceleration Program (*14-week accelerator; part-time*) Jan 2026 – May 2026

- Led a small development team to redesign and improve the UI/UX of a production WordPress platform; platform improvements contributed to the client securing **3 new business clients**
- Developed custom PHP integrations extending existing WordPress plugins including Contact Form 7 and Shopify
- Built compartmentalised UI management tools that replaced manual drag-and-drop workflows, reducing estimated web development time by **up to 80%** for non-technical staff managing content updates
- Implemented analytics pipelines connecting user behaviour and form submission data to Google Looker Studio dashboards

**Frontend Engineer (Intern)**, Bybit — Fiat Team Mar 2025 – Mar 2026

- Delivered production features for a global P2P cryptocurrency trading platform, building user-facing trading flows using React, TypeScript, and Redux
- Optimised peer-to-peer fiat trading flows including payment confirmation, order management, and dispute resolution features
- Integrated **5+ regional fiat payment providers** into express buy/sell, deposit, and withdrawal flows, implementing provider-specific checkout logic across order creation, account binding, cashier processing, and transaction result handling
- Led migration of legacy UI components to a modern design system across **2 core applications** (P2P and Channel app) in a Turborepo monorepo, reducing technical debt and improving UI consistency
- Improved frontend performance by implementing bundle analysis and code-splitting with lazy loading strategies
- Collaborated with backend engineers, QA testers, and product managers in an Agile development process, contributing to features through Git-based workflows and CI/CD pipelines across development, testnet, and production environments

**Technology Intern → Software Engineer (Contract)**, EZ EdTech Solutions — Mont Kiara, KL Apr 2024 – Aug 2026

*Industrial Training: Apr 2024 – Aug 2024 | Contract: Feb 2025 – Present*

- Developed a Python Flask factory process application and a mobile-first React PWA (TypeScript, Vite, Tailwind CSS) to digitise linen operations across collection, washing, packaging, and delivery workflows — replacing an unstable legacy system that froze under load and required manual workarounds for unsupported features
- Packaged the factory system into cross-platform desktop and Android applications using Tauri
- Implemented offline-first capabilities with local caching and background synchronisation to support unreliable mobile network conditions
- Integrated QR code scanning and vehicle plate capture to streamline delivery verification and operational tracking
- Revamped the company's public-facing education website using Gatsby with CMS integration, improving content management workflows for non-technical staff

- Led project planning and sprint management using GitHub Projects, organising development milestones, tracking issues, and coordinating delivery across a cross-functional team
- Involved across the full development lifecycle from initial system design through to pre-production testing and bug resolution ahead of system launch

## Projects

**Repothole (Capstone Project, Pothole Detection System)** *Jan 2023 – Jul 2023*

- Developed a real-time pothole detection web application with a dashboard for monitoring reported road hazards
- Developed a computer vision model using **TensorFlow** to classify potholes from road images
- Built a **React + Firebase** web platform that aggregates geolocation-tagged reports and alerts drivers of potential potholes ahead
- Implemented an administrative dashboard to review reported potholes, uploaded images, and historical road condition data

**Orientation Party Ticket Registration System** *Jun 2024 – Sep 2024*

- Built a custom event registration platform replacing Eventbrite, featuring student verification, automated waiting list management, and an admin dashboard for event-day check-ins
- Engineered a ticket registration platform serving **3,000+** attendees, handling high-volume concurrent registrations on Firebase
- Implemented custom queuing and registration cap logic to manage oversubscription and maintain balanced participant distribution
- Developed an admin dashboard using **React, shadcn/ui, Tailwind CSS, and Firebase** for real-time guest registration, headcount monitoring, and on-site event check-in

## Education

**Taylor's University**, BS in Software Engineering — CGPA: 3.52 *Oct 2020 – Aug 2024*

- Minor in Creative Media Design
- **Technical Lead, Agents of Tech** (2 consecutive years) — led the club to win **Best Event of the Year 2023** via the ImagineHack hackathon and **Best Club of the Year 2024**
- Initiated and ran a Tech Forums programme alongside hackathons and technical workshops to build a stronger tech community on campus
- Partnered with Refugee Education and Children Training School, Subang to deliver a Figma design workshop for underprivileged students (2024)

**Universiti Tunku Abdul Rahman (UTAR)**, Foundation in Science *May 2019 – Oct 2020*

## Volunteering

**Workshop Facilitator & Hackathon Mentor**, Taylor's University *May – Jun 2026*

- Returned as an alumni volunteer to conduct *Backend for All*, a 2-hour pre-hackathon workshop covering backend concepts with hands-on Node.js, MongoDB, and Git sessions; received strong positive feedback for clarity and accessibility
- Mentored teams during the hackathon on architecture decisions, debugging, and implementation; several mentored teams placed

**Community Service Volunteer**, Taylor's University *2023*

- Delivered introductory computer literacy and Figma design sessions in Malay to underprivileged students under the Taylor's Community Service Initiative

## Technologies

- **Languages:** TypeScript, JavaScript, Go, Python, Java, SQL, PHP
- **Frontend:** React, Next.js (App Router), Gatsby, Vite, Tailwind CSS, shadcn/ui, Redux
- **Backend:** Node.js, Express.js, Firebase, WordPress
- **Databases:** PostgreSQL, MongoDB, Firestore
- **Cloud & Infra:** AWS (EC2), Docker, GitHub Actions
- **Tools:** Git, Figma, Insomnia, Neovim, Jira, GitHub Projects, Claude Code, tmux