

Chong Shi Loong

Full-Stack Developer & Product Engineer

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Portfolio: <https://nicholas-portfolio-zeta.vercel.app/>

Professional Summary

Full-Stack Developer with hands-on experience building and deploying web-based systems used by real users. Skilled in translating unclear business requirements into structured workflows, backend logic, and usable interfaces. Comfortable working across frontend, backend, and database layers.

Skills

Core: Next.js, React, Prisma, PostgreSQL, Node.js, Angular

Others: Tailwind CSS, API Design, Git, Basic .NET (C#), Laravel

Strengths: Workflow design, RBAC implementation, system logic structuring

Professional Experience

Web Developer (Front-End & Technical BA)

Data Flows Sdn Bhd | Oct 2025 – Present

- Worked on enterprise-level web applications, focusing on frontend architecture and requirement clarification.
- **Took over a project** mid-development, **identified logic issues**, and **restructured workflows** to align with client needs.
- Acted as a bridge between stakeholders and developers to translate requirements into technical tasks.

Freelance Software Developer

Mar 2021 – Sept 2024

- Built and maintained small business systems including booking and internal tracking tools.
- Handled database redesigns, bug fixing, and deployment support.

Projects

Church Management System | May 2025 – Jun 2025

<https://nicholas-portfolio-zeta.vercel.app/projects/church-system>

- Production Deployment & Real Users: Replaced fragmented Google Forms and manual Excel workflows with a centralized Nexy.js platform. Currently deployed in a real-world production environment, actively managing event logistics, attendance, and administrative approvals for 50+ active members.
- Access Control Architecture: Engineered a custom **multi-tier RBAC** system using Next.js Middleware and JWT, strictly securing cohort data and API routes.
- Data Integrity & Bulk Processing: Developed a CSV bulk-import utilizing Prisma for complex relational constraint validation. Eliminated manual data entry duplication and automated credential generation, **saving administrators ~3 hours of manual work** per event.

Task Management System | Jul 2025 – Sept 2025

<https://nicholas-portfolio-zeta.vercel.app/projects/task-system>

- Self-Hosted SaaS Alternative (Active Use): Built and deployed a lightweight project management platform currently **utilized by a real startup team**. Successfully replaced expensive third-party tools (e.g., ClickUp), eliminating recurring SaaS costs while ensuring 100% data sovereignty and privacy.
- High-Performance UI Interactions: Developed a Kanban board featuring custom drag-and-drop (DnD) architecture. Configured sensor limits (Touch/Mouse) to ensure flawless native-like scrolling and dragging on mobile devices.
- State Management: Decoupled UI components to utilize optimistic UI updates and state lifting. **Synchronized real-time project statistics** (completion rates, priority distribution) across dashboards, providing users with zero-latency visual feedback without relying on heavy global state libraries.

Education

Bachelor of Software Engineering (Incomplete)

University Malaysia Sabah | 2020 – 2024

Paused studies due to personal responsibilities. Completed 3.5 years of rigorous coursework. Key modules: OOP (C++/Java), Data Structures, Database, Software Design & Architecture, Project Management.

STPM

St. Paul Institution Seremban | 2018 – 2019