

Myo Thu Ko

Software Engineer / Frontend Engineer | React, Next.js, TypeScript | AI-Assisted Product Delivery

Contact

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- Current Location: Malaysia
- Availability: Visa sponsorship required

Professional Summary

Software Engineer with 6+ years of experience building production web applications with React, Next.js, TypeScript, Node.js, PostgreSQL, and MongoDB. Strong frontend ownership with practical backend collaboration across fintech, banking, e-commerce, and learning-platform products.

Experienced in AI-assisted development workflows, using LLMs and coding assistants to clarify requirements, compare implementation options, scaffold repetitive code, improve documentation, and speed up debugging while manually validating output through code review, tests, and production requirements.

Known for connecting technical decisions to business outcomes: faster API responses, improved page-load performance, reusable UI architecture, secure payment workflows, and reliable sprint delivery in cross-functional teams.

Core Technical Skills

Frontend: React, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Redux, React Query

Backend & APIs: Node.js, NestJS, Express, REST APIs, Next.js API routes, Backend-for-Frontend (BFF), API contract design

Database & Data: PostgreSQL, MongoDB, schema design, indexing, query optimization, relational data modeling

AI-Assisted Development: GitHub Copilot-style workflows, LLM prompting with project context, AI-assisted debugging, test scaffolding, refactoring support, documentation drafting, manual verification of generated output

Performance & Reliability: Caching strategies, request batching, server-side pagination, lazy loading, code splitting, Service Workers, production debugging

Security: Authentication, authorization, role-based access control, secure API design, input validation, payment-flow security considerations

Quality & Delivery: Jest, Cypress, React Testing Library, GitHub Actions, CI/CD pipelines, Docker basics, code review, Agile sprint planning

Leadership & Communication: Technical mentoring, stakeholder alignment, architecture documentation, task breakdown, cross-functional collaboration

Professional Experience

Senior React Developer

Accenture Southeast Asia (Maybank MY & SG) | Jun 2024 - Dec 2025

- Architected and delivered a campaign management system using Next.js, TypeScript, React Query, Tailwind CSS, and Node.js API integration patterns for regional banking operations.
- Designed and implemented a Backend-for-Frontend (BFF) layer with Next.js API routes to transform backend responses into frontend-ready data, reducing UI/backend coupling and improving delivery speed.
- Improved API response performance by 40% through React Query caching, request batching, server-side pagination, and query optimization strategies.
- Reduced initial page-load time by ~40% through code splitting, lazy loading, asset optimization, and reusable component architecture.
- Built reusable data-table patterns for filtering, sorting, pagination, and operational reporting, later adopted across product teams.
- Eliminated UI freezes in heavy-processing flows by offloading expensive work to Service Workers.
- Used AI-assisted development responsibly for repetitive implementation planning, documentation drafts, and debugging support while reviewing generated output against product requirements and existing code standards.
- Strengthened delivery quality through Jest coverage on critical flows, code reviews, and mentoring junior engineers on React, TypeScript, debugging, and maintainable architecture.
- Automated CI/CD workflows with GitHub Actions, supporting reliable bi-weekly sprint deployments with minimal manual release work.

Software Engineer

AYA Innovations Lab | Dec 2022 - May 2024

- Built customer-facing and admin features for wallet and Buy Now Pay Later (BNPL) platforms using React, Next.js, TypeScript, Node.js, and MongoDB.
- Delivered merchant and admin portals with transaction visibility, operational workflows, form validation, and role-based access control.
- Implemented secure payment-flow UI and integration logic with strong attention to data validation, authentication, authorization, and user trust.
- Collaborated on backend API design, database schema modeling, indexing, and query optimization to support transaction-heavy product workflows.
- Connected fintech experience to product delivery by translating compliance-sensitive flows into clear UI states, validation rules, and operational dashboards.

Technical Team Lead

Vidya Media Myanmar | Nov 2021 - Nov 2022

- Led an engineering team delivering a learning platform across web and mobile, managing the full-stack feature roadmap from planning through release.
- Owned frontend architecture decisions for React, Redux, API contracts, component reusability, and maintainable state management.
- Built and maintained an admin portal while coaching engineers on implementation patterns, debugging, and code quality.
- Established coding standards, review practices, task breakdown, and architectural documentation to improve consistency across Agile delivery cycles.

Frontend/System Developer

Dinger | Dec 2019 - Oct 2021

- Built core e-commerce and payment-gateway frontend integrations used by merchants across multi-channel payment flows.
- Implemented secure payment redirection, transaction-management screens, and merchant-facing SaaS workflows with React, Next.js, Redux, and API integrations.
- Participated in backend architecture planning and database design discussions for scalable transaction systems.
- Worked across Java Spring Boot, Kotlin, Node.js, and frontend integration points to bridge product requirements with reliable payment experiences.

Projects

Maybank Campaign Management System

Tech Stack: Next.js, TypeScript, React Query, Node.js API routes, PostgreSQL, Tailwind CSS

Enterprise campaign-management platform supporting banking marketing operations across regions. Implemented BFF response shaping, reusable data tables, server-side pagination, optimized data fetching, and production-ready UI workflows.

Maybank Workflow Engine Configuration Platform

Tech Stack: Next.js, NestJS, TypeScript, PostgreSQL

Workflow rule-configuration platform for operational teams. Designed frontend architecture and collaborated on API contracts, database schema, validation rules, and performance considerations.

Buy Now Pay Later (BNPL)

Tech Stack: React, Next.js, Node.js, MongoDB, TypeScript, Formio

E-commerce payment platform with secure checkout, customer onboarding, merchant integration, role-based access control, transaction workflows, and data validation across frontend and backend touchpoints.

Dinger Payment Gateway

Tech Stack: React, Next.js, Redux, Node.js, Kotlin, Java Spring Boot

Merchant-facing SaaS payment portal supporting multi-channel checkout and transaction management. Built frontend integrations with secure payment redirection and flexible gateway patterns.

Key Impact Metrics

- 40% faster API responses through caching, request batching, server-side pagination, and query optimization.
- ~40% faster initial page load through code splitting, lazy loading, and asset optimization.
- Zero UI freezing on performance-critical flows after Service Worker optimization.
- 5+ production features shipped ahead of schedule with reliable delivery practices.
- Bi-weekly deployment velocity supported through GitHub Actions CI/CD automation.
- Junior engineer growth supported through mentoring, code reviews, and architecture guidance.

Education

Bachelor of Computer Science (Software Engineering)

University of Computer Studies, Yangon | Graduated Feb 2020