

Nyi Nyi Zin

Full-Stack Software Developer

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PROFESSIONAL SUMMARY

Full-stack software developer with experience delivering scalable web, mobile, and backend systems across the full software development lifecycle. Strong background in React, Next.js, TypeScript, Go, Node.js, NestJS, PostgreSQL, and MySQL, with hands-on expertise in system architecture, secure APIs, database design, performance optimization, DevOps, and CI/CD. Experienced in leading cross-functional teams, defining engineering standards, and building maintainable products with reliable user experiences.

PROFESSIONAL EXPERIENCE

Software Development Team Leader — waansaung.com Nov 2025 – Present
Full-time · Remote

- Lead the software development team across frontend, backend, and UI/UX functions, with direct responsibility for technical direction, delivery coordination, code quality, and engineering standards.
- Define project architecture, workflows, process documentation, flow diagrams, and project-wide technical standards.
- Plan and assign work, track delivery progress, and coordinate cross-functional teams to maintain quality and schedule alignment.
- Lead UI/UX collaboration by setting implementation direction and providing feedback to improve design consistency, usability, and product quality.
- Manage and deploy full-stack infrastructure on Alibaba Cloud, including server configuration, monitoring, and operational support.
- Implement GitHub Actions CI/CD pipelines for automated build, test, and deployment workflows across frontend and backend applications.

Full-Stack Software Developer — TRIOSYS IT Solutions and Services Apr 2025 – Nov 2025
Full-time · Remote

- Delivered full-cycle software projects spanning frontend architecture, backend services, database design, security, testing, deployment, and technical documentation.
- Built high-performance Next.js applications using server components, dynamic imports, code splitting, tree shaking, responsive image optimization, CDN delivery, and PWA capabilities.
- Developed secure authentication and authorization flows using JWT, refresh tokens, RBAC, Zod validation, CSP, CSRF protection, and secure HTTP headers.
- Improved data-heavy workflows with virtualization, infinite scrolling, debounced search, pagination, bulk operations, payload minimization, and optimized serialization.
- Designed and optimized Go, Express, NestJS, and Next.js services with query tuning, indexing, connection pooling, sharding, Redis caching, HTTP caching, load balancing, and horizontal scaling.
- Established observability and reliability practices using Sentry, error boundaries, retry logic, graceful fallback interfaces, Lighthouse, Jest, and Vitest.
- Containerized applications with Docker, integrated Jenkins CI/CD, and used Husky, ESLint, and Prettier to enforce quality standards.

Associate Developer — DomiTech May 2023 – Feb 2025
Thantwe, Myanmar

- Supported end-to-end networking, infrastructure, connectivity, and system integration services before transitioning into software development.
- Built complex React and TypeScript interfaces with attention to performance, accessibility, routing, form validation, and maintainable component architecture.
- Designed RESTful APIs with Node.js and Express.js, implementing JWT/OAuth authentication, file uploads, role-based access control, and secure API practices.
- Modeled and optimized MongoDB and PostgreSQL databases through schema design, validation, indexing, and complex query development.
- Collaborated in Git-based development teams, contributing to code reviews, testing, documentation, and consistent engineering workflows.

EDUCATION

Bachelor of Computer Science — Polytechnic University Maubin · Graduated

TECHNICAL SKILLS

Frontend	HTML, CSS, JavaScript, TypeScript, React, Next.js, Tailwind CSS, Bootstrap, Shadcn UI, Material UI, Mantine UI, Framer Motion
State / Forms	Redux, Redux Toolkit, Zustand, TanStack Query, TanStack Table, React Hook Form, Formik, Zod
Backend	Node.js, Express.js, NestJS, Go, Gin, Fiber, Echo, REST, GraphQL, gRPC, WebSocket
Databases	PostgreSQL, MySQL, MSSQL, MongoDB, MariaDB, Firebase, Firestore

Data & ORM	Prisma, Drizzle, Sequelize, Mongoose, GORM, Redis, background jobs and queues
Cloud / DevOps	Docker, Alibaba Cloud, Jenkins, GitHub Actions, CI/CD, Linux, Nginx, OpenResty, Git
Architecture / Security	Clean Architecture, MVC, microservices, modular monoliths, event-driven systems, JWT, OAuth, RBAC, ABAC, bcrypt
Quality / Monitoring	Sentry, Datadog, Jest, Vitest, ESLint, Prettier, Husky, Postman, Insomnia, Lighthouse
Mobile / Other	React Native, Expo, Flutter, Dart, PWA, Core Web Vitals, CDN, lazy loading, rate limiting

FEATURED PROJECTS

DeltaWatch — GeoAI Flood Intelligence & Early-Warning Platform — Designed a GeoAI-based flood monitoring and risk-assessment platform for Maubin Township, Myanmar. Combined Sentinel-1 SAR and Sentinel-2 satellite imagery, historical and recent rainfall, Copernicus DEM GLO-30 elevation, HAND, rivers, canals, historical flood events, and planned IoT water-level sensors to estimate spatial flood risk at grid-cell level. Defined a 500 m × 500 m screening grid covering 5,549 cells and designed features for flood probability, risk scoring, and decision support.

Stack: Next.js, TypeScript, Python, FastAPI, PostgreSQL, PostGIS, Logistic Regression, Google Earth Engine, Sentinel-1, Sentinel-2, CesiumJS.

Waansaung Delivery System (Super App) — waansaung.com — Built a multi-platform delivery job marketplace across web, mobile, and admin applications. Developed job, order, and user services; implemented RBAC with JWT and Google OAuth; added multilingual support; optimized data access with Redis and indexed queries; and deployed a Dockerized system on Alibaba Cloud with OSS file storage.

Stack: Next.js, React Native, Expo, NestJS, PostgreSQL, Prisma, Redis, TypeScript.

Price Changer System — Built a multi-channel pricing and inventory platform with configurable approval workflows, audit history, multi-currency conversion, barcode scanning, Excel import/export, RBAC, JWT refresh authentication, and responsive dashboards.

Stack: NestJS, React, PostgreSQL, Prisma, Docker, Mantine UI, Tailwind CSS, Redux Toolkit, React Query, Jenkins.

Educational Information System — Designed a multi-application education platform comprising a Go REST API, admin dashboard, and public Next.js website. Implemented JWT permissions, background workers, file management, rich-text editing, content management, dashboards, and SEO-friendly dynamic rendering.

Stack: Go, Echo, GORM, PostgreSQL, Next.js, React, TypeScript, Tailwind CSS, React Query, Zustand, Docker.

Expense Request System — Developed an expense workflow platform with multi-level approvals, RBAC/ABAC, protected APIs, real-time updates, Firebase notifications, master-data management, Excel export, and attachment handling.

Stack: Go, Echo, React, MySQL, GORM, WebSocket, Firebase, Docker.

AI Eye-Tracking Focus Monitoring System — Created a real-time webcam application using OpenCV and MediaPipe to detect gaze, head position, eye closure, distraction, and drowsiness, with alert notifications and focus classification.

Stack: Python, OpenCV, MediaPipe, NumPy.

ADDITIONAL PROJECTS

- Wedding Invitation Website
- Company Profile Website
- Customer Relationship Management System
- Mikrotik Landing Page
- Hotel Management System
- Blog Website
- Digital Products Marketplace
- E-commerce Platform
- Task Management Platform
- Face Recognition System
- Face-Mask Detection System

CERTIFICATIONS

- Web Development Course – MERN (Code Hub)
- Next.js Mastery Course (Code Hub)
- Docker Course (Code Hub)
- Go: The Complete Developer's Guide (Udemy)

PORTFOLIO

<https://nyinyizin-portfolio.vercel.app/>