

Nyi Nyi Zin

Full-Stack Software Developer | Team Lead

Yangon, Myanmar • nyinyizin1818@gmail.com • +95 9-675507310

[GitHub](#) • [LinkedIn](#) • [Portfolio](#)

PROFESSIONAL SUMMARY

Full-stack developer and engineering team lead with 7+ years of experience in the IT field since 2018. Builds and ships production web, mobile, and backend systems end-to-end, with working depth in system architecture, secure API design, database modeling, and DevOps/CI-CD. Experienced in owning features from architecture through deployment and coordinating cross-functional engineering teams.

PROFESSIONAL EXPERIENCE

Founder — Cloud Nine Software Company

2026 – Present

Founded Cloud Nine Software Company in 2026 with a team of experienced developers to build tailored, high-performance software for clients. Lead delivery from client requirements and custom UI through production deployment. The company also provides programming instruction to students, helping them develop practical software development skills.

Software Development Team Lead — WaanSaung (waansaung.com)

Nov 2025 – Present

Full-time · Multi-platform live jobs & delivery marketplace (web, mobile, admin)

Founded and launched in 2024 to connect junior creative professionals with job opportunities, WaanSaung has grown to offer career resources, networking, and marketplace services.

- Own technical direction for the engineering team: architecture decisions, delivery coordination, code quality, and engineering standards across web, mobile, and admin codebases.
- Author project architecture docs, workflow diagrams, and technical standards used across the team to keep delivery consistent as the platform's module count grows.
- Coordinate cross-functional delivery, tracking progress against schedule and quality goals.
- Manage full-stack infrastructure on Alibaba Cloud (server configuration, monitoring, operational support) for a live production marketplace.
- Mentor junior developers, plan and assign tasks, and review code to maintain quality across the team.

Full-Stack Software Developer — TRIOSYS IT Solutions and Services (triosys.info)

Apr 2025 – Nov 2025

Full-time

Founded in 2019 as an IT support provider for small businesses, TRIOSYS later registered under DICA and expanded into IT solutions and business services for organizations.

- Delivered full-cycle client projects — frontend architecture, backend services, database design, security hardening, testing, deployment, and technical documentation.
- Led projects and mentored junior developers, taking responsibility for delivery from project kickoff through production release.
- Implemented secure auth flows (JWT, refresh tokens, RBAC), Zod validation, CSP/CSRF protection, and secure HTTP headers across services.
- Optimized data-heavy interfaces with virtualization, infinite scrolling, debounced search, pagination, and bulk operations to keep large tables and lists responsive.
- Designed and tuned Go, Express, NestJS, and Next.js services: query/index tuning, connection pooling, Redis caching, HTTP caching, and horizontal scaling.
- Collaborated with project managers and solution architects to deliver reliable, maintainable, high-performing applications.

Associate Developer — DomiTech

May 2018 – Feb 2025

Thantwe, Myanmar · Networking and end-user IT support across Rakhine State, plus software development projects

- Installed and configured Wi-Fi networks and CCTV systems across Rakhine State, repaired computers, and resolved users' technical and connectivity issues.
- Developed software projects in line with technical guidelines, focusing on maintainable code and strong performance.
- Applied feedback from senior developers' code reviews and studied the team's technology stack to improve implementation quality.
- Maintained and refactored code by simplifying complex logic, removing unused functions, and updating libraries and dependencies.
- Wrote basic unit and integration tests and maintained API documentation, setup guides, and explanatory code comments.

- Joined daily standups to report completed work, plan next tasks, and discuss blockers with the team.

TECHNICAL SKILLS

- **Core Full-Stack:** React, Next.js, TypeScript, Node.js, NestJS, Go (Gin/Fiber/Echo), REST, GraphQL, WebSocket
- **Databases & Data:** PostgreSQL, MySQL, MongoDB, Redis, Prisma, Drizzle, GORM, Mongoose
- **Architecture & Security:** Clean Architecture, MVC, microservices, event-driven systems, JWT/OAuth, RBAC/ABAC
- **Cloud / DevOps:** Docker, GitHub Actions, Jenkins, CI/CD, Alibaba Cloud, Nginx, Linux, Git
- **Frontend Ecosystem:** Tailwind CSS, Redux Toolkit, Zustand, TanStack Query/Table, React Hook Form, Zod
- **Quality & Monitoring:** Sentry, Datadog, Jest, Vitest, ESLint, Prettier, Lighthouse
- **Mobile & Other:** React Native, Expo, Flutter, PWA, Python (FastAPI, OpenCV)

FEATURED PROJECTS

KPI Task Manager

- Enabled project creation and team management with Admin/Manager/Employee role access, configurable task workflows, priorities, search and filters, and activity logs.
- Added project-level KPI creation and progress tracking, cached summaries, real-time direct/group chat, file sharing, reactions/replies, call activity tracking, in-app notifications, dashboards, calendar, and timeline views.
- Stack: NestJS, TypeScript, GraphQL/Apollo, REST, Prisma, PostgreSQL, Redis, JWT/Passport, Socket.io, Flyway; React, Vite, Tailwind CSS, TanStack Query, React Router, React Hook Form, Axios; Docker/Compose, Jest, ESLint, Prettier.

Restaurant POS SaaS

- Developed a SaaS restaurant POS platform with three distinct interfaces: a customer-facing side, a restaurant owner panel, and a centralized admin panel.

Waansaung Delivery System — waansaung.com

- Built a multi-platform marketplace across web, mobile, and admin applications, covering jobs, local services, property, second-hand listings, chat, and push notifications.
- Implemented role-based access, multilingual support, secure sign-in, and deployed a cloud-hosted containerized application.
- Improved on-page SEO for the public-facing site (metadata, semantic markup, server-side rendering) to boost search visibility and organic discovery.
- Stack: Next.js, React Native, Expo, NestJS, PostgreSQL, Prisma, Redis, Alibaba Cloud, Docker.

DeltaWatch — GeoAI Flood Intelligence & Early-Warning Platform — deltawatch-jayyutyh.manus.space

- Designed a GeoAI flood-risk and early-warning platform for Maubin Township.
- Analyzed satellite imagery, rainfall, and elevation data to score flood risk across a 500-meter grid of 5,549 cells and visualize results.
- Stack: Next.js, TypeScript, Python/FastAPI, PostgreSQL/PostGIS, Google Earth Engine, CesiumJS.

Price Changer System

- Built an administrative financial dashboard for centralized exchange rate and multi-currency management, with currency CRUD operations and configurable global pricing models.
- Integrated a secure data decryption module (Decipher Code) to validate, decrypt, and verify rate update payloads, protecting data integrity and preventing unauthorized price changes before broadcast.
- Synchronized prices in real time across web and mobile clients, with immediate state updates and line, bar, and pie charts for historical rate trends and system analytics.
- Stack: Next.js, React, TypeScript, Mantine, Tailwind CSS, TanStack Query, Zustand/Redux Toolkit; NestJS, REST/WebSockets, PostgreSQL/MySQL, Prisma, Decipher Code; Docker, Docker Compose, Nginx.

Customer Relationship Management (CRM) System — Sales Pipeline & Lead Intelligence Platform

- Designed a lead-tracking and qualification system to centralize prospect data (contact info, product interest, source channel), preventing missed opportunities and closing handoff gaps between sales staff.
- Built automated follow-up scheduling and an opportunity pipeline that routes qualified leads by conversion likelihood, plus a real-time sales-performance dashboard and marketing-channel attribution analytics.
- Stack: Next.js, NestJS, PostgreSQL (Prisma/GORM), Redis, and WebSocket for real-time follow-up notifications; deployed with Docker and GitHub Actions CI/CD.

Digital Payment Verification Platform — Digital products marketplace — subscriptions & virtual cards

- Built an automated payment-verification system for a digital-products marketplace, replacing manual KBZPay/AyaPay/WavePay transaction matching with OCR-based screenshot verification.
- Cross-checked payment screenshots against nightly transaction exports with duplicate detection and optional push alerts.
- Stack: Flutter, Riverpod, Dio, NestJS, Google Cloud Vision OCR, Telegram Bot API, PostgreSQL, Cloudflare R2, Docker, Nginx/Caddy, Sentry, Swagger.

Digital Product Marketplace Website

- Built a digital product marketplace with searchable listings, category filters, product detail pages, and a purchase flow.
- Provided customer access to purchased products and admin tools for managing listings and orders.
- Stack: Next.js, NestJS, PostgreSQL.

Book Store Mobile App

- Built a Flutter bookstore app for browsing books, viewing details, purchasing books, and buying Premium access.
- Stack: Flutter.

Expense Request Management System

- Enforced role- and attribute-based access for Employee, Manager, and Finance approvals using claim limits, department scope, and expense categories.
- Automated policy checks and notifications, flagged violations, and routed requests through multi-tier approvals.
- Synced expense status and payouts across web and mobile, with dashboards for trends and department budgets plus downloadable CSV/PDF audit reports.
- Stack: Next.js (App Router), React, TypeScript, shadcn/ui, Tailwind CSS, TanStack Query, Zustand / Redux Toolkit; Go, RESTful APIs / WebSockets, PostgreSQL / MySQL; Docker, Docker Compose, Nginx.

Educational Information System — jca.com.mm

- Built a multi-application education platform with a REST API, admin dashboard, and public website, using JWT-based permissions and background workers.
- Implemented SEO-friendly dynamic rendering and content management.
- Stack: Go, GORM, PostgreSQL, Next.js, React Query, Zustand.

School Management System — student.tezatechlab.online

- Built an admin dashboard and student portal where administrators create courses and batches, register students, assign enrollments, and publish lessons, assignments, quizzes, and announcements.
- Limited student access to active enrollments; students complete lessons, submit assignments, take quizzes and final exams, and track progress while administrators review submissions and performance.
- Automated duplicate-safe certificates after passing final exams and protected scoring, certificate issuance, account administration, and private files through authenticated server-side routes.
- Stack: Next.js, React, TypeScript, Firebase Auth, Firestore, Vercel, Tailwind CSS, React Query.

Wedding Invitation Website

- Built a wedding invitation website with a welcome message, the couple's pre-wedding photos, and ceremony date, time, and venue, accessible through a shared link.
- Enabled guests to leave wishes for the couple on the invitation site.
- Stack: Next.js, PostgreSQL, NestJS, shadcn/ui, React Query, Docker.

Hotel Management System

- Managed rooms, reservations, guest records, check-ins/check-outs, billing, invoices, occupancy/revenue reports, and admin/reception access.
- Stack: React Native, Expo, NestJS, PostgreSQL, Docker.

Delivery CRM System

- Built a delivery operations and customer-management platform for customer/order tracking, pricing, status workflows, and role-based dashboards.
- Stack: Next.js, NestJS, PostgreSQL/Prisma, Redis, Docker, GitHub Actions CI/CD.

AI Eye-Tracking Focus Monitoring System

- Built a webcam-based AI system for drivers and students that detects drowsiness and loss of focus and sends alerts.
- Stack: Python, OpenCV, MediaPipe.

Face Mask Detection System

- Built a Python-based computer-vision system to detect whether a person is wearing a face mask.
- Stack: Python.

Face Recognition System

- Built a separate Python-based facial recognition system to detect and recognize faces.
- Stack: Python.

TRIOSYS Company Profile Website — triosys.info

- Built the company website to present its IT services.
- Stack: Next.js.

CERTIFICATIONS

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

EDUCATION

Bachelor of Computer Science — Polytechnic University Maubin | Graduated 2025