Nyi Nyi Zin

Full-Stack Software Developer | Team Lead

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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

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.

TEACHING EXPERIENCE

Full-Stack Web Development & Python Instructor

Taught two classes covering full-stack web development and Python for data analysis, visualization, and machine learning.

- **Full-Stack Web Development:** Taught HTML, CSS, JavaScript, TypeScript, Git and GitHub, PostgreSQL, React.js, and NestJS.
- **Python, Data Analysis & Machine Learning:** Taught Python fundamentals, object-oriented programming (OOP), NumPy, MySQL, pandas, Matplotlib, Jupyter Notebook, data cleaning and statistics, data visualization, machine learning, Streamlit, and Power BI.

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 2026

Relevant Coursework: Computer Vision; Data Structures and Algorithms; Software Project Management; Information Assurance and Security; Analysis of Algorithms; Parallel and Distributed Computing; Database Systems; Cloud Computing; Advanced Artificial Intelligence; Data Mining.