TARYANA

FULLSTACK DEVELOPER & SYSTEMS ENGINEER

Denpasar Barat, Bali, Indonesia • taryana2525@gmail.com • +62 888-0235-8759
linkedin.com/in/taryanalink • github.com/nhana557 • taryana.my.id

PROFESSIONAL SUMMARY

Results-oriented **Fullstack Developer** with **3+ years of production experience in backend engineering** and **2+ years in modern frontend development**, specializing in delivering high-performance web applications and scalable enterprise platforms. Proven track record in building robust end-to-end solutions using **TypeScript, NestJS, Node.js, Express, Next.js, PostgreSQL, MongoDB, Redis, and Docker**. Experienced in designing secure multi-tenant architectures, automated payment workflows, and smooth user interfaces maintaining **99.9% operational uptime**. Passionate about clean code, software craftsmanship, and solving complex business challenges, with working production architectures and interactive system simulators showcased at taryana.my.id.

PROFESSIONAL WORK EXPERIENCE

PT. Semua Aplikasi Indonesia — Backend Developer
Jan 2023 – Present | Kuta, Bali

Enterprise Web Services, Carrier OSS/BSS, ERP Systems

- **Architecture & System Design:** Architected and delivered scalable server-side systems and RESTful microservices using **NestJS (TypeScript), Go, and PostgreSQL/MongoDB**, maintaining **99.9% operational uptime** across client deployments.
- **Multi-Tenant Isolation (RBAC):** Designed and implemented **Role-Based Access Control (RBAC)** and tenant-scoping guards on PostgreSQL, preventing cross-tenant data leaks across regional commercial branches.
- **Geospatial Coverage Optimization:** Integrated **PostGIS GiST R-Tree indexing** (ST_DWithin, ST_Distance) for optical distribution point (ODP) network feasibility checks, reducing spatial query latency by **70% to sub-5ms**.
- **Idempotent Financial Settlement:** Engineered automated double-entry ledger settlement workers integrating **Midtrans, Xendit, and Virtual Accounts**; leveraged **Redis Redlock distributed mutexes** to process 500+ concurrent webhook callbacks with **zero transaction discrepancy**.
- **SLA Ticketing & Incident Resolution:** Built web-based Customer Service (CS) ticketing workflows, categorizing incoming complaints and routing assignments to specialized technical teams with automated SLA tracking, cutting incident resolution time by **35%**.
- **Distributed Caching & Real-Time Events:** Built multi-layer caching with **Redis** and real-time event broadcasting using **WebSockets and Redis Pub/Sub**, cutting relational database read loads by **45%**.
- **DevOps & CI/CD Pipelines:** Containerized applications with **Docker & Docker Compose**, configuring automated **GitHub Actions** pipelines with GHCR and zero-downtime SSH rollout on Linux VPS servers.

KEY ENGINEERING PROJECTS

NetStream — NetApps Enterprise ERP — Carrier-Grade ISP Platform (netstream.id)
Active Production

Stack: NestJS (TypeScript), PostgreSQL, PostGIS, RBAC, Redis (Redlock & Streams), FreeRADIUS, Docker

- **Sales SPK & Automated Provisioning:** Engineered full-lifecycle onboarding with automated 24-hour optical port reservations via Redis TTL and zero-touch FreeRADIUS PPPoE profile provisioning.
- **PostGIS Spatial Feasibility:** Developed real-time fiber coverage check using PostGIS GiST R-Tree indexing (ST_DWithin), evaluating optical loss attenuation within 150m in sub-5ms.
- **Regional Branch RBAC Isolation:** Implemented strict multi-branch data isolation and multi-level approval workflows (Sales → NOC → Finance) using scoped RBAC guards.
- **Idempotent Payment Reconciliation:** Built automated multi-gateway settlements (Midtrans, Xendit, VA) with Redis Redlock distributed locks and double-entry accounting ledgers.
- **SLA Ticketing & CS Assignment:** Developed web-based incident management allowing Customer Service (CS) to ingest, categorize (LOS FO, ONT config, billing), and assign tickets to relevant technical units with SLA resolution timers.

NontonPlus — Multi-Tenant B2B IPTV & RBAC Hospitality Platform (nonton.id)
Active Production

Stack: NestJS, Node.js, Express, MongoDB, Redis, WebSockets, JWT, Docker

- Architected multi-tenant backend platform serving hotels and serviced apartments with strict four-tier role access (Superadmin, Property Manager, Frontdesk, Tenant) tied to active subscription contracts.
- Built WebSocket service for instantaneous push of service alerts, welcome messages, and content schedules to connected room devices.
- Designed append-only activity audit trail collection in MongoDB and cached device entitlement tokens in Redis with sub-millisecond response.

KEY ENGINEERING PROJECTS (CONTINUED)

POS & Retail ERP Management System — High-Concurrency Multi-Outlet & Shift Reconciliation **Mei 2023 – Mar 2024**

Stack: NestJS (TypeScript), MongoDB, Redis, JWT, REST API

- Developed high-performance RESTful APIs in NestJS (TypeScript) for multi-outlet Point of Sale & Retail ERP transactions, product catalogs, discount engines, and inventory management.
- Implemented shift handover calculation module with automated expected cash drawer balance tracking, eliminating discrepancies in shift closes.
- Utilized Redis in-memory key-value caching to optimize high-traffic promotion queries and frequently scanned barcode lookup operations.

Semua Kopi Indonesia — E-Commerce, Logistics & Multi-Gateway System **Jan 2023 – Apr 2024**

Stack: Node.js, Express.js, MongoDB, Redis, Midtrans API, Biteship Logistics API, OAuth2

- Built complete transactional e-commerce engine handling cart validation, order placement state machine, stock reservation, and automated checkout workflows.
- Integrated Midtrans payment gateway supporting multi-channel payments (QRIS, VA, E-Wallets) with secure webhook signature validation and idempotent retry handling.
- Integrated Biteship API for dynamic multi-courier shipping rate calculation, automated pickup requests, and real-time live airway bill tracking.

TECHNICAL SKILLS & CORE COMPETENCIES

LANGUAGES	**TypeScript**, **JavaScript (ES6+)**, **Go (Golang)**, **SQL (PostgreSQL)**, Bash / Shell Scripting
FRAMEWORKS & RUNTIMES	**Node.js**, **NestJS**, **Go Gin**, Express.js, Next.js (App Router), React, RESTful APIs, WebSockets
DATABASES & STORAGE	**PostgreSQL 16** (PostGIS Spatial GiST, Relational Scoping), **MongoDB**, **Redis 7.2** (Redlock, Streams, Pub/Sub, Geo), MinIO S3, Cloudflare R2
ARCHITECTURE PATTERNS	**Modular Architecture**, Multi-Tenancy (RBAC & Schema Scoping), CQRS, Transactional Outbox, Idempotency Keys, Modular Monolith (Learn), Microservices (Learn), EDA (Learn)
DEVOPS & TOOLING	**Docker**, **Docker Compose**, **GitHub Actions (CI/CD)**, GHCR, Watchtower, Linux (Ubuntu Server), Nginx, Caddy, Git, Postman, Swagger / OpenAPI

EDUCATION & PROFESSIONAL CERTIFICATIONS

Fullstack Web Development Bootcamp — PijarCamp **Jul 2022 – Nov 2022**

Intensive enterprise software engineering program focused on RESTful APIs, relational & non-relational database design, distributed caching strategies, authentication protocols, and agile teamwork.

ADDITIONAL INFORMATION

LANGUAGES	Indonesian (Native / Fluent), English (Professional Working Proficiency)
WORK AVAILABILITY	Full-time, Contract, or Technical Advisory Roles (Remote / Hybrid / On-site)
CODE REPOSITORY	github.com/nhana557 • Live Engineering Portfolio: taryana.my.id