Rochman Ramadhani Chiefto Irawan, S.Kom.

FORWARD DEPLOYED ENGINEER · PRODUCT ENGINEER · TECH FOUNDER

Jakarta, Indonesia 13930 · rochmanramadhani12@gmail.com · +62 813 8103 9158
linkedin.com/in/rochmanrmdhnn · github.com/rochmanrmdhnn · Portfolio: **omanlabs.tech**

PROFILE

Forward Deployed Engineer and Product Engineer who helps Indonesian business owners grow with AI and well-built systems. **6+ years** building production systems, **3 years** in BRI's digital ecosystem, and since June 2026 building and fully owning my own product at **Skolain**. I work alongside the people who run the business: finding the use cases that actually pay off, building the system with them, and staying until their team runs it on its own. A technical background in Go, Rust, and cloud and on-prem infrastructure lets me show what a decision really costs before anyone builds it.

KEY IMPACT

- Proposed, planned, and led a **NestJS → Go backend migration** for Telkom Indonesia's Omni Communication Assistant (OCA) to improve resource efficiency and resilience under peak traffic.
- Architected a **national HRIS with 50,000+ active users** that stays stable through simultaneous clock-in spikes — PT PKSS.
- Took Skolain from zero to **1,600+ active users** — teachers, students, and operators — replacing exams, attendance, and report cards that previously ran on Google Forms and Excel, and cutting **grade recaps from days to real time**.
- Led **6 engineers** as Software Architect on the Health, Safety & Environment system used across every Siloam International Hospitals unit, **500+ daily users**.
- Grew the technology team **from 7 to 30+ people**, directly involved in hiring and onboarding — PT Lumos Inisiatif Indonesia.
- Contracted **three times** for BRI digital products — twice on **New Delivery System**, once on **QLOLA** — progressing to Senior Software Engineer.
- Led end-to-end development of **NU CARE**, Nahdlatul Ulama's ZISWAF (Islamic philanthropy) platform, and the engineering team of **LinkIT360**, which handles **millions of transactions per month**.

PROFESSIONAL EXPERIENCE

Some engagements ran in parallel — one primary contract plus part-time freelance work outside office hours.

Skolain — PT Inovasi Mitra Konsultan

June 2026 – Present

Founder · Remote

- Own the product end to end: discovery with teachers, operators, and principals; backlog and acceptance criteria in **Jira**; architecture and release priorities; through to leading the team into production.
- Unified five modules — **CBT** with anti-cheating and automated grading, **LMS**, **Attendance**, **School Management** with Dapodik integration, and **E-Learning** — into a single school workflow.
- Keep the product stable and cost-efficient during simultaneous exam peaks through a **multi-tenant** architecture I designed myself.
- Built and tested the product directly in classrooms with **SMK Jakarta Pusat 1** as development partner, while **SMKS YP 17 Baradatu, Lampung** found Skolain through social media and still subscribes — an inbound channel, not a direct sale.

PT Mastah Digital Teknologi

July 2025 – May 2026

Engineering Manager · Hybrid, Part-time

- Kept delivery commitments across client projects with a full **Scrum** cadence and **Jira** as the single source of truth for team capacity and allocation.
- Turned client business briefs into **scope, estimates, and timelines** agreed by both sides, so mid-project changes could be negotiated on clear ground.
- Reduced project-failure risk early through **technical assessments**, and shortened the development cycle by adopting **AI-driven development** (Claude Code, Codex, Copilot, Cursor) with regular mentoring.

PT Bank Rakyat Indonesia (BRI) December 2024 – December 2025

Senior Software Engineer, New Delivery System (NDS) · Onsite, Contract

- Kept the application that branch frontliners use to serve customers at the counter available on a **microservices** architecture on **OpenShift**, while acting as a **technical reference** for other engineers through code review and enforcing coding standards.
- Closed security gaps earlier by making **SAST**, **DAST**, and **SonarQube** part of the release cycle rather than a final check.

Telkom Indonesia August 2024 – January 2025

Senior Software Engineer, Omni Communication Assistant (OCA) · Hybrid, Full-time

- Proposed, planned, and led the NestJS → **Go** backend migration to improve resource efficiency and platform resilience under peak traffic.
- Supported high message volumes with an **event-driven microservices** architecture built on Kafka and CDC, with observability through Prometheus, the LGTM stack, and Datadog. Opened new customer channels through **Jatis**, **Meta** (WhatsApp, Messenger), and **TikTok** integrations.

PT Infobit Unixa Komputasi December 2022 – February 2026

Technical Lead & Backend Engineer, Prima Super App · Remote, Part-time Freelance

- Raised throughput while cutting resource usage through a **backend migration to Go** and a state-management overhaul in phase V3, while steering the product through three major phases (V1–V3) as the translator between client requests and system capabilities. Answered the client's biggest field complaint with an **offline mode** for low-connectivity locations.

PT Bank Rakyat Indonesia (BRI) December 2023 – August 2024

Backend Developer, QLOLA — Wholesale Digital Banking Platform · Onsite, Contract

- Opened a new transaction channel for corporate customers by integrating QLOLA with **Perum Bulog**, automated repetitive operational processes with **Rundeck**, and validated system readiness before release with **Locust** load testing.

PT Prima Avza Solusindo February 2023 – February 2024

Backend Engineer, Government & Social Sector · Remote, Part-time Freelance

- Delivered ready-to-use analytics for executive decision-making at the **Ministry of Home Affairs** through an Executive Information System backend; streamlined data requests through **E-Database** with role-based access control; and digitized **ZISWAF** fund management.

PT Bank Rakyat Indonesia (BRI) December 2022 – December 2023

Backend Developer, New Delivery System (NDS) · Onsite, Contract

- Built and maintained the branch frontliner service application on **microservices** on OpenShift, with SAST and DAST as part of the release cycle. Shortened production troubleshooting with **ELK Stack**, **Kafka**, and **Jaeger**.

PT Lumos Inisiatif Indonesia October 2020 – December 2022

Software Engineer, then Lead Software Engineer (April 2021) · Hybrid, Full-time

- Grew the team **from 7 to 30+ people** as the company scaled, directly involved in hiring, onboarding, and shaping the team structure.
- Delivered enterprise **ERP, SCM, and CRM** applications to production while leading backend, frontend, and mobile teams (Go, Flutter), with FSD and TSD as the formal reference documents between client and team.

PT Multi Cipta Manajemen July – September 2020

Software Developer · 3-month Internship

Where my career began, while still at vocational high school: delivered internal and client web applications from interface to API integration — and learned to read requirements directly from users, not just from tickets.

CONSULTING, ADVISORY & TEACHING

FRAMES — Fatigue Risk Assessment with MEdical adviceS v1 Oct – Dec 2020 · v2 March 2024

Product Engineer · Aviation Medicine, Faculty of Medicine Universitas Indonesia (FKUI) × Garuda Indonesia Training Center

- Owned the product while building the app: turned the fatigue-assessment instrument from the FKUI medical team into a self-administered questionnaire for flight crew, complete with risk scoring.
- Pilot profile data model (flight hours, licenses, aircraft type, airline) ready for integration with airline and military systems. Kotlin, MVVM, Room, Firebase. v2 released 7 March 2024.

Ministry of Environment and Forestry (KLHK) January – April 2024

Technical Consultant — SPARING & CEMS

- Took part in drafting the technical rules for **SPARING** and **CEMS**, the national regulations on how industries must continuously monitor and report their **wastewater quality** and **air emissions**.
- Built a CEMS platform that automatically sends stack-emission monitoring data (SO_2, NO_x, O_2, particulates) to KLHK's national system, and prepared the migration of SPARING data (COD, BOD, pH, TSS, flow rate) to the new schema so monitoring history stays unbroken when the rules change.

Kolegium Dokter — Membership Dashboard 2026

Product Engineer

- Owned discovery, scoping, and release priorities for a membership dashboard scoped for up to **150,000 general practitioners** across Indonesia. Released.

- **Technology Partner — Hegemoni Group**, a multi-brand beauty group (May 2026 – present).
- **AI Learning Partner — Coach Rheo** (doatrto.com, August 2026 – present). Learning and building AI workflows together with business owners until their team runs them on its own.
- **Speaker — SMK Jakarta Pusat 1 with TechPedia** (12–13 August 2026). “Unlocking the Future: Coding, AI & Personal Branding for the Digital Generation”, a two-day seminar, about 6 hours of sessions.

AWARDS & DEVELOPMENT

- **1st place — Supporter category**, BRI “Support System” program, March 2025 (10/10).
- **BRI Product Development Conference** with Tech in Asia — 25 June 2024.
- **1st place, SEAMEO SEAMOLEC Southeast Asia Creative Camp batch 3** (January 2019) with **Smart Green Garden**, an automatic IoT plant-watering system; **1st place, Kamp Kreatif SMK Indonesia 2019** (Ministry of Education) with **Ngajar**, a two-way classroom LMS; **1st place, PermataYouthPreneur 2020** (PermataBank) with **Bayar**, a fintech app.

CORE COMPETENCIES

Product & delivery · Forward Deployed Engineering, Product Engineering, Product Discovery, User Research, Product Roadmap, Backlog Management, User Story & Acceptance Criteria, Prioritization (Impact vs Effort), MVP Definition, Release Planning, Agile/Scrum, Definition of Done, PRD/FSD/TSD

Leadership & business · Cross-functional Team Leadership, Engineering Management, Team Scaling & Mentoring, Hiring & Onboarding, Stakeholder & Client Management, Cost Optimization, Technical Trade-off Analysis, Go-to-Market & Pilot Program

Tools · Jira, Notion, ClickUp, Figma, Metabase · Mermaid, PlantUML, ERD, Sequence Diagram, User Flow, Wireframing

TECHNICAL STACK

Languages & architecture · Golang, Rust, React, NextJS, Vite, Bun, Node.js, Flutter · Microservices, Event-Driven Architecture, Domain-Driven Design, Multi-Tenant Architecture

Data & infrastructure · PostgreSQL, MySQL, MongoDB, Amazon RDS · RabbitMQ, Kafka, Redis · AWS (ECS, ECR, RDS, CloudWatch, VPC, ALB/NLB, S3, IAM), Alibaba Cloud, KVM Virtualization, On-Premises · Docker, OpenShift, RKE2, K3s, Rancher

Observability & quality · Jaeger, OpenTelemetry, Prometheus, Loki, Grafana, Tempo, Mimir, Datadog, ELK Stack · GitLab CI/CD, Jenkins, SonarQube, SAST, DAST, CDC, Rundeck · Ghz, Locust

AI-driven development · Claude Code, OpenAI Codex, GitHub Copilot, Cursor

EDUCATION

Binus Online Learning — B.Sc. in Information Systems (S.Kom.), GPA 3.85, Magna Cum Laude. Graduated 8 August 2026. 2022 – 2026

SMK Negeri 26 Jakarta — Vocational High School, Information Systems, Networks and Applications. 2017 – 2021