



MUHAMMAD ILHAM RAFIANNANDHA

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Jl duren tiga buntu no 1, Duren Tiga, Pancoran, Jakarta Selatan, 12760.

Interested in new things. Addicted to code. Thats all.

Pengalaman Kerja

PT Surya Bestari Lestari - Jakarta, Indonesia.

Dec 2025 - Jul 2026

Senior Full Stack Engineer

PT Surya Bestari Lestari (SBLNET) is an Internet Service Provider (ISP) delivering high-speed broadband internet to residential and business customers across Indonesia. The company operates an in-house platform spanning the full subscriber lifecycle — from onboarding and automated network provisioning to recurring billing, accounting, and online payment collection through multiple payment gateways and direct bank integrations.

- Architected core ISP platform backend in Java (Spring Boot) — 27-module modular monolith, 8 PostgreSQL databases
- Modular Monolith Architecture with Spring Modulith (hexagonal / DDD, event-driven modules)
- Multi-Datasource Transaction Management across 8 databases (per-context ACID)
- Authentication & Authorization with Spring Security + JWT (rotating refresh tokens)
- Double-Entry Accounting Module (General Ledger, Journal Entries, Chart of Accounts)
- Automated Billing Engine (invoicing, proration, discount, PPN/VAT, integer-cents money)
- Multi-Gateway Payment Architecture (pluggable gateway abstraction — Duitku + direct bank)
- Payment Gateway Integration (Duitku — Virtual Account, QRIS, E-Wallet, Retail)
- Direct Bank Integration with BRI — Fixed Virtual Account (BRIVA), real-time inquiry & payment callback (host-to-host)
- Fixed Virtual Account Feature (permanent per-customer VA, deterministic & idempotent registration)
- Payment Settlement & Reconciliation Feature (HMAC-verified callbacks, invoice matching)
- Dunning & Auto-Isolation Feature (auto-suspend overdue, reactivate on payment)
- Real-time Network Provisioning with FreeRADIUS (AAA)
- MikroTik RouterOS Integration (PPPoE, live session monitoring, CoA disconnect)
- RADIUS Accounting for Session & Data Usage Monitoring
- NOC & OLT Management (router health monitoring, incident tracking, device backup)
- Customer Self-Service Mobile App (plan upgrade, invoice payment, data usage)
- Tech Stack :
- Backend : Java (Spring Boot, Spring Modulith, Spring Security, Spring Data JPA)
- Database : PostgreSQL, Redis
- Frontend : NextJs
- Mobile : React Native
- Payment : Duitku, BRI Virtual Account (BRIVA), Fixed VA
- CI&CD : Jenkins, Docker

PT.Cashlez Worldwide Indonesia - Jakarta, Indonesia.

Mar 2025 - Dec 2025

Full Stack Developer (Contract)

is a financial technology company that provides solutions for merchants and partners through various channels, including offline and online Payment Gateways with various payment methods such as Credit/Debit Cards, QRIS, QR Cross Border, BNPL, Virtual Accounts, and many more.

- Building Finance Portal
- Reconciliation Feature from 3rd Party to Bank Mutation
- Reconciliation Feature from 1st Recon Result to Back Office Data
- Detection for Dispute Amount, Missing in Bank, Missing in Back office
- Disbursement Feature
- Deduction Feature
- Tech Stack :
- Backend : Java (Spring Boot)
- Frontend : NextJs
- CI&CD : Jenkins, Docker

PT.Cyber Lab Indonesia - Jakarta, Indonesia.

Jun 2023 - Feb 2025

Full Stack Developer (Contract)

Indonesian IT Consultant

- Developed a HRIS Management System (Attendance Management, GPS Absence with Radius, Employee Management, Etc)
- Developed a Income Journal Management System

- Developed a Point of Sales System
- Lead for Development Team
- Lead of Development for internship
- Tech Stack :
- Backend : Laravel, Java (Springboot)
- Frontend : NextJs, VueJs
- Mobile : React Native
- CI&CD : Jenkins, Docker

PT.Elteyba Medina Fauzana - Jakarta, Indonesia

Apr 2021 - Nov 2022

Full Stack Developer (Contract)

Elteyba Tour & Travel is an Umrah & Hajj Travel Agency with an Official Permit from the Ministry of Religion, ASITA and IATA which already has a PPIU & PIHK Permit.

- User & Role Management: Multi-role (Admin, Agent, Jamaah, Coordinator), approval flow.
- Jamaah Registration: Online form with passport/visa upload, group registration, package selection.
- Payment & Invoicing: Automated invoicing, DP & Cicilan tracking, payment reminders, exportable receipts.
- Travel Package Management: Real-time seat quota, schedule assignment, flight & hotel management.
- Document & Visa Tracking: Upload tracking, status workflows, API/CSV export for visa processing.
- Manifest & Room Allocation: Flights Grouping, hotel sharing logic, PDF generation for immigration/hotel.
- Communication & Notification: Email fallback, WhatsApp broadcast for schedule and updates.
- Analytics & Reports: Financial reports, sales agent performance, dashboard insights.
- Mobile Access : Jamaah can login to view itinerary, payment status, and download documents.
- Security & Best Practices: Clean modular architecture (Service & Repository pattern), queue-based notifications, activity logging, daily backups.
- Tech Stack :
- Backend: Laravel, Laravel Sanctum, Livewire, Spatie Permission, Laravel Excel, DomPDF
- Frontend: Vue 3 (SPA), React Native (mobile)
- Database: MySQL/PostgreSQL, Redis (queue/session)
- Integrations: Midtrans (payment), WhatsApp API, PDF generator, Email Gateway

PT.Taiba Cococha Indonesia - Jakarta, Indonesia.

Feb 2020 - Apr 2021

Full Stack Web Developer (Contract)

PT. Taiba Cococha Indonesia is a manufacturer of premium coconut shell charcoal for Hookah and BBQ.

- Build Multilingual (English, Indonesia, Arabic) Company Profile Website : <https://taibacoco.co.id>
- Build CRM System with details below :
- Key Features :
- User & Role Management: Multi-role access (Admin, Sales, Support), permission-based access, audit logs
- Contact & Lead Management: Status tracking, notes, reminders, import/export (Excel/CSV)
- Task Scheduler: Calendar view, user assignments, automated follow-up notifications
- Communication Logs: Email, WhatsApp API, internal comment threads
- Sales Pipeline: Deal tracking, performance reports, funnel metrics
- Dashboard & Analytics: Daily task summary, lead insights, revenue tracking
- Invoice & Quotation Module: PDF generation, status tracking, e-signatures
- Product Catalog: Light inventory, pricing, descriptions
- Security: 2FA, session logs, secure login/logout control
- Tech Stack :
- Backend: Laravel, Laravel Passport (API auth), Spatie Permissions (RBAC), Queues, Events/Listeners
- Frontend: Vue 3+ Pinia (SPA)
- Database: MySQL, Redis (for queue/session caching)
- DevOps: GitHub.
- File & Media: Local File Save, DomPDF for PDF generation

ProSpark Pte Ltd - Singapore

Jul 2024 - Aug 2024

Full Stack Developer (Freelance)

A comprehensive learning platform to train, upskill, and reskill your workforce.

- Specializes in Learning Management System (LMS) development
- Utilizes Laravel for back-end development
- Ensures seamless integration of front-end and back-end components
- Focuses on creating engaging and effective learning experiences
- Responsible for system maintenance, troubleshooting, and optimization
- Tech Stack : Laravel

Remedi Indonesia - Jakarta, Indonesia.

Nov 2022 - May 2023

Full Stack Engineer (Freelance)

Rumah Remedi Indonesia is an integrated personal and corporate wellbeing institution.

- Collaborated with stakeholders to define product scope and user requirements
- Designed scalable architecture for both mobile and backend components
- Built and deployed cross-platform mobile app with React Native
- Developed secure Laravel backend with authentication, data handling, and API support
- Managed database structure and implemented data privacy best practices
- Conducted testing, debugging, and performance optimization
- Led continuous improvements based on user feedback and feature iterations
- Tech Stack:
- Mobile App: React Native (cross-platform for iOS & Android)
- Backend: Laravel (secure REST API, authentication, business logic)
- Database: MySQL (secure handling of sensitive user data)
- Integrations: Real-time chat, third-party APIs (for extended app features)

PT.Arka Spektrum Solutindo - Jakarta, Indonesia.

Sep 2023 - Dec 2023

Full Stack Developer (Freelance)

PT.Arka Spektrum Solutindo is an Indonesian EduTech startup created to assist Indonesian prospective migrant workers in becoming skilled and finding suitable employment.

- End-to-End Job Portal Development: Designed and built feature-rich job portals for job seekers and employers.
- Core Features: Implemented user authentication, job listings, advanced filtering/search, application tracking, and messaging between candidates and employers.
- Fullstack Execution: Handled both frontend UI and backend logic to deliver responsive, intuitive, and scalable platforms.
- Client-Centric Workflow: Worked closely with clients to gather requirements, provide solutions, and ensure successful delivery.
- Performance Optimization: Focused on clean code, best practices, and usability to deliver fast and secure web applications.
- Project Management: Managed timelines and deliverables to meet client expectations and ensure high-quality outcomes.
- Tech Stack :
- Backend: Laravel (RESTful architecture, authentication, scalable backend).
- Frontend: Blade, HTML, CSS, JavaScript.
- Database: MySQL.

Taman Safari Bogor - Bogor, Indonesia

Nov 2023 - Jan 2024

Full Stack Developer (Freelance)

Taman Safari Indonesia - Bogor is a world-class Conservation Center and was named the best conservation site by the Indonesian Ministry of Forestry.

- Developed a mobile ticket verification app using React Native for seamless scanning at park entry points.
- Designed a fast, intuitive UI for on-site staff to verify ticket authenticity in real time.
- Integrated QR code and barcode processing to streamline visitor check-in and reduce queues.
- Implemented security measures to detect and block fraudulent or reused tickets.
- Ensured compatibility with Taman Safari's existing ticketing infrastructure.
- Collaborated with IT teams and park management, iterating based on real user feedback.
- Delivered ongoing updates, feature enhancements, and bug fixes for operational reliability.
- Supported the park's broader digital transformation and modernization efforts.
- Tech Stack :
- React Native, QR/Barcode Scanner Libraries, Mobile API Integration.

Nghbr INC - New York City, United States.

Jun 2023 - Aug 2023

Mobile Developer (Freelance)

NGHBR is hyper-local networking for the tech ecosystem. We're mapping the tech 'neighborhoods' around the world to make connecting, building, testing and fundraising more efficient.

- UI/UX Implementation: Translated complex UI/UX designs into pixel-perfect, responsive mobile interfaces.
- API Integration: Connected frontend with backend services, ensuring smooth and reliable data flow.
- User-Centric Design: Focused on delivering intuitive, performance-optimized mobile experiences.- Team Collaboration: Worked closely with cross-functional teams to align frontend development with API design and project goals.
- Attention to Detail: Ensured consistent UI across multiple screen sizes and devices through meticulous slicing and layout refinement.
- Tech Stack :
- React Native (cross-platform mobile development)
- API Integration (RESTful APIs, real-time data sync)

TVRI - Jakarta, Indonesia.

Mar 2017 - Sep 2017

Full Stack Web Developer (Internship)

- TVRI Corporate Website: Front end Maintenance for <http://tvri.go.id/>

- Full Stack Web Developer for <http://newstvri.com/>

Jenjang Pendidikan

Universitas Darma Persada - Jakarta

Aug 2018 - Sep 2023

Bachelor of English Literature, 3.60/4.00

Keterampilan, Prestasi & pengalaman lain

- **Achievements** 🏆 (2022): Became a speaker on the topic "Web application in the world of work" at Pertamina University's HMIK Talk event
- **Achievements** (2022): Became the Main Speaker on the topic "Ngoding Bareng" at the Permikomnas (Perhimpunan Mahasiswa Informatika dan Komputer Nasional) Jakarta event
- **Projects** (2023): Full stack web developing for PT.CoffeeLabs Indonesia Journaling website. Link : [Https://jurnal.coffeelabs.id](https://jurnal.coffeelabs.id)
- **Projects** (2023): Full stack web developing for Hasanain Center Company Profile website and Registration System. Link : [Https://hasanaincenter.com](https://hasanaincenter.com)
- **Projects** (2023): Full stack web developing for PT.Saudara Bina Electric website. Link : [Https://sabilec.com](https://sabilec.com)
- **Projects** (2023) : Full stack web developing for PT.CoffeeLabs Indonesia Attendance Via GPS website. Link : [Https://management.coffeelabs.id](https://management.coffeelabs.id)
- **Projects** (2022): Full stack web developing for Gravilla.id Hotel and Ticket Booking Site. Link : [Https://gravilla.id](https://gravilla.id)
- **Projects** (2021): Developing company profile web for PT.Indonesia Aero Camera. Link : [Https://iac.co.id](https://iac.co.id)
- **Projects** (2020): Developing company profile web for PT.Safara Digitech. Link : [Https://safaradigitech.com/](https://safaradigitech.com/)
- **Projects** (2020): Freelance Fullstack web developer and maintenance for Donation's Web <https://cahayaalkahfi.com>
- **Projects** (2020): Full stack web developing for Segment Sport Event's website. Link : [Https://segment.events](https://segment.events)