MUHAMMAD TIO LAKSONO

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SUMMARY

IT Professional with 8+ years of experience in IT Infrastructure, Software Engineering, Mobile Development, and DevOps. Experienced in building scalable web applications, REST APIs, and mobile applications, as well as managing cloud infrastructure on AWS (EC2, IAM, VPC, RDS) and implementing CI/CD pipelines.
Proven ability to maintain system reliability, optimize application performance, and deliver secure, scalable, and production-ready solutions across multiple environments.

KEY COMPETENCIES

Software

- Web Application Development
- REST API Development
- Mobile Application Development

Programming & Framework

- PHP, Laravel
- JavaScript, Typescript, React.js
- Kotlin And Flutter (Mobile Development)
- Python
- Java
- Go

Devops & Infrastructure

- Docker
- CI/CD Pipelines
- AWS (EC2, IAM, VPC, RDS)
- K8s

Monitoring & Observability

- Prometheus
- Grafana
- ELK Stack
- CheckMK

PROFESSIONAL EXPERIENCE

IT Operational Engineer **Feb 2026 – Now**
PT. Solusi Pembayaran Elektronik

- Led backend development and delivered scalable applications using PHP and Golang.
- Built and optimized solutions with MySQL, PostgreSQL, MongoDB, ClickHouse, and RabbitMQ.
- Managed infrastructure using Docker, Kubernetes/OpenShift, GitLab CI/CD, and Linux servers.
- Ensured application reliability through high-availability architecture and monitoring with CheckMK, Prometheus, Grafana, PMM, and Elastic Stack.

Senior IT Programmer **June 2024 – Sept 2025**
PT. Indo Taichen Textile Industry

- Developed ERP systems supporting production, inventory, and finance operations with Laravel.
- Built REST APIs for integration with Flutter mobile applications.
- Delivered department-specific solutions (HR, production, finance) to improve operational workflows.
- Optimized database performance across IBM Db2, MySQL, and SQL Server.

Back End Engineer **Feb 2023 - June 2024**
PT. Teknologi Lintas Negeri Abadi

- Designed and maintained PostgreSQL databases, including data modeling, performance optimization, and backup strategies.
- Developed Laravel RESTful APIs to support analytics dashboards and web applications.
- Managed Docker containers to ensure consistent environments across development and production.
- Deployed backend services on Google Cloud Platform (Cloud Run, Cloud SQL, Artifact Registry) for scalable infrastructure.
- Integrated Xendit Payment Gateway and implemented API testing and documentation using Postman.
- Collaborated with frontend, QA, and DevOps teams to deliver features and support CI/CD via GitHub Actions.

IT Programmer **July 2021 - Feb 2023**
PT. Frans Brother Sejati

- Managed web and database servers (Apache/Nginx, MySQL/PostgreSQL) ensuring system stability and performance.
- Developed Laravel-based ERP systems and REST APIs supporting inventory, HR, finance, and sales operations.
- Built Kotlin Android ERP apps with real-time sync and offline capabilities.
- Created internal IT tools and supported infrastructure troubleshooting.

IT Infrastructure **April 2017 - July 2021**
PT. Wellcomm Esqooel Solusindo

- Led IT Support operations ensuring SLA compliance and infrastructure reliability.
- Managed data center infrastructure and Linux servers with monitoring, backups, and security updates.
- Maintained network systems, CCTV infrastructure, and enterprise servers (web, database, file).
- Configured Panasonic PABX telephony systems for internal communication.

PROJECTS

Sales Order Management System – PT Aneka Busa Indonesia

Tech Stack :
Laravel, React.js, Inertia.js, MySQL, RBAC, REST API, J&T Cargo API Integration

Project Description

- Built a Sales Order Management System using Laravel, React.js, and Inertia.js.
- Implemented RBAC access control for multi-role enterprise users.
- Integrated J&T Cargo API for automated shipment processing and tracking.

Alarm TBC Apps - Kaha Solution

Tech Stack :
Laravel Dashboard RBAC, Laravel REST API, OAuth2 Social Media, Flutter (GetX), Alarm Feature

Project Description

- Built a TBC medication reminder app using Flutter and Laravel REST API.
- Implemented alarm notifications for medication schedules and treatment tracking.
- Developed OAuth2 authentication and RBAC dashboard for patient monitoring.

Analytical Dashboard - Alphalitical

Tech Stack :

Laravel REST API, Next.js, Docker, Google Cloud, Google Cloud Functions, Google Cloud Storage, Google Docs API, Google Sheets API, OAuth2 Social Media, Xendit Payment Gateway, Social Media API, Analytics API, PostgreSQL, BigQuery

Project Description

- Built Laravel REST APIs for an analytics dashboard with third-party integrations.
- Integrated social media APIs, analytics services, and Xendit Payment Gateway.
- Implemented Google Cloud infrastructure (Cloud Functions, Storage, BigQuery) for scalable data processing.

ERP System – Poloralphlauren Indonesia

Tech Stack :

PHP Dashboard, Laravel REST API, Kotlin (MVP Architecture), Bluetooth Printer, MySQL, SQLite, Cloud Hosting

Project Description

- Built an ERP system with web dashboard and Kotlin mobile app for sales and inventory management.
- Developed Laravel REST APIs for data synchronization between platforms.
- Implemented Bluetooth printing and optimized MySQL/SQLite databases for cloud and offline operations.

Layar TVRI Apps

Tech Stack :

Laravel REST API, PostgreSQL, OAuth2 Social Media, Streaming Service API, Linux Server

Project Description

- Developed Laravel REST APIs to support user management and streaming services for the Layar TVRI mobile application.
- Integrated streaming service APIs to enable video content delivery and playback handling.
- Implemented OAuth2 social login for secure user authentication.
- Managed PostgreSQL databases and Linux server deployment to ensure stable backend performance.

Etalase Apps

Tech Stack :

Laravel REST API, Laravel Dashboard, Flutter, MySQL, File Storage Management, Firebase

Project Description

- Developed Laravel REST APIs to support product management, user data, and mobile application services.
- Built and maintained an admin dashboard using Laravel for managing products, users, and application content.
- Integrated Flutter mobile application with backend APIs for real-time data access and updates.
- Implemented file storage management and Firebase services for notifications and media handling.

UMKM GO ONLINE – Kominfo

Tech Stack :

Laravel Dashboard RBAC, PostgreSQL, File Storage Management

Project Description

- Developed a web platform for virtual expo and e-commerce to help UMKM businesses showcase and sell products online.
- Built a Laravel-based dashboard with RBAC to manage vendors, products, and exhibition content.
- Implemented file storage management for product images, promotional materials, and digital exhibition assets.
- Designed and optimized PostgreSQL database structures to support product catalogs, vendor data, and transactions.

Medosen Apps For Olimpiade

Tech Stack :

Kotlin for Android (MVP), SQLite, OCR, Google ML Kit

Project Description

- Developed an Android application for medical dosage calculation to assist participants during medical olympiad activities.
- Built the mobile app using Kotlin with MVP architecture for structured and maintainable code.
- Integrated OCR using Google ML Kit to scan and extract text data for faster dosage input.
- Implemented SQLite local database for offline data storage and quick access to dosage information.

Yessindo Apps - PT. Yakin Sukses Indonesia

Tech Stack :

Laravel REST API, OAuth2 Social Media, Firebase, Midtrans Payment Gateway, Raja Ongkir API, JNE API, E-commerce Commission System, Affiliate Feature

Project Description

- Developed an Android application for medical dosage calculation to assist participants during medical olympiad activities.
- Built the mobile app using Kotlin with MVP architecture for structured and maintainable code.
- Integrated OCR using Google ML Kit to scan and extract text data for faster dosage input.
- Implemented SQLite local database for offline data storage and quick access to dosage information.

IT Infrastructure – Univ. Tangerang Raya

Tech Stack :

Mikrotik Router, TP-LINK, Mikrotik AP, Ruijie AP, Hikvision

Project Description

- Designed and deployed campus network infrastructure using Mikrotik routers and multiple access points to support stable internet connectivity.
- Configured and managed wireless networks (Mikrotik AP, Ruijie AP, TP-Link) for campus-wide coverage.
- Implemented and maintained CCTV systems using Hikvision for security monitoring.
- Performed network monitoring, troubleshooting, and maintenance to ensure reliable infrastructure operations.

IT Infrastructure – Bekasi Regency Government

Tech Stack :

Windows Server, Mikrotik, Ruijie Access Point, Cisco Firepower

Project Description

- Implemented and managed Active Directory on Windows Server for centralized user and access management.
- Configured network infrastructure using Mikrotik and Ruijie access points to support secure internal connectivity.
- Implemented Hotspot authentication system for controlled network access.
- Set up shared services including file sharing and printer sharing for internal office operations.
- Configured and maintained Cisco Firepower firewall to secure network traffic and enforce security policies.

EDUCATION

Diploma in Informatics Engineering (D3)

GPA : 3,32

- Major: Informatics Engineering
- Focus: Software Development, Database Systems, and Computer Networks

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CERTIFICATIONS

- Android Developer Expert | Dicoding.com | 2020