

Luqmanul Hakim

Software Engineer with DevOps Mindset with 6+ year experiences

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PROFESSIONAL SUMMARY

Engineering manager and software engineer with demonstrated experience in developing software with values across different industries, starting from SMEs, startups, until unicorn companies. With my unique style of leadership, devops, and product mindset, I am able to build and empower several tech teams in various companies while being passionate about business strategy and driving innovation through technology, even though I only have a high school diploma degree.

EXPERIENCE

Mejadokter - Health Tech

Technical Founder | Jan 2020 - Now

Bali, Remote

- **Mission:** Spearheaded Mejadokter's mission to revolutionize healthcare operations by digitizing medical data and clinical management systems. Led the technology strategy and development, delivering robust digital solutions that enhanced operational efficiency and client satisfaction.
- **Tech Stack:** Node.js, Nest.js, Express.js, Go, MongoDB, Redis, React, Kafka, AWS.
- **Key Achievements:**
 - **Data Migration Tool:** Developed and deployed a scalable data migration tool, enabling health facilities to transition seamlessly from multiple clinic management systems to Mejadokter. Reduced onboarding time by 40% and improved data accuracy by 25%.
 - **Product Development:** Led a cross-functional team in building and launching Mejadokter's core products, empowering 50+ clinics to enhance service delivery, patient care, and staff productivity.
 - **Strategic Integrations:** Designed and executed a technology roadmap, integrating critical systems such as SatuSehat, BPJS Antrian Online (JKN), BPJS Pcare.
 - **Marketing & CRM Solutions:** Developed tailored Marketing and CRM solutions for clinics, increasing patient engagement by 30% and retention rates by 20%.
 - **Website Builder:** Designed and launched an intuitive website builder for clinics, boosting online presence and patient interaction, resulting in a 35% increase in patient inquiries.
 - **Infrastructure Development:** Built Mejadokter's infrastructure from scratch, ensuring scalability, reliability, and high availability to support business growth and user demands.

TradersFamily.id - Trading Forex

DevOps Engineer | Jul 2024 - Present Jakarta, Remote (Part-time, Contract end soon)

- **Mission:**
 - Spearheaded the adoption of DevOps practices and tools (Jenkins, Terraform, Docker, Docker Swarm) to streamline development workflows and improve team efficiency.
 - Delivered significant infrastructure improvements and cost optimizations, resulting in enhanced system reliability and reduced operational expenses.

- **Tech Stack:** Jenkins, Terraform, Docker, Docker Swarm, Loki, Grafana, Prometheus, Node-Exporter, cAdvisor, HAProxy, MariaDB Galera Cluster, AWS, WordPress.
- **Key Achievements:**
 - **Infrastructure Automation:** Built Docker Swarm and Jenkins CI/CD pipelines from scratch, reducing deployment times by 40% and improving release consistency.
 - **Monitoring & Observability:** Designed and implemented a comprehensive observability stack (Prometheus, Node-Exporter, cAdvisor, Loki, Grafana) with 31 custom dashboards and 72 alert rules, enabling real-time system monitoring and proactive issue resolution.
 - **Cost Optimization:** Identified and removed underutilized servers, achieving a 25% reduction in cloud infrastructure costs.
 - **High-Availability Systems:** Built and managed a MariaDB Galera Cluster with HAProxy and failover capabilities, ensuring high availability and scalability for multi-node environments.
 - **Secure Environments:** Established a secure VPN network for Development, Staging, and Production environments, enabling secure remote work for developers.
 - **Tool Deployment:** Successfully deployed and managed critical tools including Plane (project management), AppWrite (self-hosted), Nginx, and Traefik (reverse proxies), improving team collaboration and application performance.
 - **Scalable Infrastructure:** Managed 21 nodes and created 24 CI/CD pipelines, supporting seamless scaling of applications and services.
 - **WordPress Optimization:**
 - * Enhanced WordPress performance through horizontal scaling, reducing page load times by 30%.
 - * Migrated file storage to object storage, improving scalability and reducing storage costs by 20%.

Gokomodo - Agricultural Supply Chain

Engineering Manager | Sep 2022 - February 2024

Jakarta, Hybrid

- **Mission:** Oversee a diverse team of over 20 members across multiple software engineering functions including Back-End, Front-End Web, Front-End Mobile, QA Manual, QA Automation, and DevOps. Successfully maintained nearly zero major incidents annually through effective management and team leadership.
- **Tech Stack:** Go, Docker, PostgreSQL, Redis, React, React Native, AWS, GCP
- **Key Achievements:**
 - **DevOps Excellence:**
 - * Implemented cost-saving measures for cloud and infrastructure expenses, ensuring effective resource utilization.
 - * Developed self-service tools for app deployment, configuration management, and service restarts, reducing dependencies on the DevOps team.
 - **Quality Assurance Enhancement:**
 - * Standardized QA processes, including test cases, bug reports, and test plans.
 - * Advanced automation testing implementation, setting up essential tools and fostering team collaboration.
 - **Technical Leadership:**
 - * Established project templates based on clean architecture for enhanced testing and maintainability.
 - * Conducted thorough reviews of database designs and critical feature implementations.
 - **Team Management:**
 - * Streamlined interview and testing processes for new software engineers.

- * Conducted regular one-on-one meetings and performance reviews.
- * Initiated knowledge sharing sessions and team activities for professional growth.
- **Process Improvement:**
 - * Standardized task breakdown methodology and Jira usage for project management.
 - * Led effective Sprint Planning and Sprint Grooming sessions.

Chatat - PoS, Accounting, Web Builder

CTO | Mar 2022 - Sep 2022

Jakarta, Remote

- **Tech Stack:** Go, Docker, PostgreSQL, Redis, React, React Native, AWS
- **Key Achievements:**
 - **Strategic Leadership:**
 - * Outlined company's technological vision and implemented efficiency strategies.
 - * Led team in building and roadmapping profitable products.
 - * Conducted root-cause analysis to identify departmental pain points.
 - * Managed technology organization overseeing product, design, and technology teams.

Head Of Engineering | Jul 2021 - Mar 2022

Jakarta, Remote

- **Tech Stack:** Go, Docker, PostgreSQL, Redis, React, React Native, AWS
- **Key Achievements:**
 - **Team Leadership:**
 - * Led engineering department from hiring to project management.
 - * Implemented monthly one-on-one reviews and sharing sessions.
 - * Developed and implemented scrum methodology.
 - **Process Improvement:**
 - * Managed engineering projects end-to-end with focus on continuous improvement.
 - * Designed strategies for future development aligned with company objectives.

Lead Backend Engineer | May 2021 - Jul 2021

Jakarta, Remote

- **Tech Stack:** Go, Docker, PostgreSQL, Redis, React, React Native, AWS
- **Key Achievements:**
 - **Infrastructure Improvements:**
 - * Built automation for BitBucket Pipeline deployment.
 - * Created comprehensive documentation for backend codebase onboarding.
 - * Developed service architecture for simplified DevOps configuration.

AVANA - Social Commerce & Web Builder

DevOps Engineer | Jul 2021 - Nov 2021

Malaysia, Remote

- **Tech Stack:** AWS, Docker, MySQL, PHP, Laravel, Symphony, React, Serverless
- **Key Achievements:**
 - **Infrastructure Migration:**
 - * Successfully migrated legacy service deployment from EC2 to Fargate.
 - * Increased system capacity from 283 RPS to 13,000+ RPS with zero downtime.
 - **Process Improvement:**
 - * Analyzed existing technology and developed comprehensive improvement plans.
 - * Established key milestones and streamlined cross-department collaboration.
 - * Supported engineers in creating and demonstrating practical solutions.

Grab

SWE, Backend (Merchant Experience) | Apr 2020 - Jul 2021 Jakarta, Remote

- **Tech Stack:** Go, Docker, MySQL, Kafka, Redis, Aerospike, Jenkins, Kubernetes
- **Key Achievements:**
 - **Platform Development:**
 - * Led development of merchant.grab.com from ground up to completion.
 - * Developed backend API endpoints using Go and various databases.
 - * Integrated Kafka data sources with Grab API.
 - * Designed and implemented scalable solutions using Go.
 - * Collaborated with cross-functional teams for complex feature development.
 - **Documentation & Tools:**
 - * Created comprehensive engineering specifications and tutorials.
 - * Developed docker-compose setup for frontend team collaboration.
 - * Managed component uptime and availability through HA best practices.
 - * Conducted service capacity planning and performance optimization.

SWE, Developer Experience (GrabKios) | Aug 2019 - Apr 2020 Jakarta, Hybrid

- **Tech Stack:** Go, Docker, MySQL, Kafka, Redis, Aerospike, Jenkins, Kubernetes, React, OpenAPI
- **Key Achievements:**
 - **API Mocking Platform Development:**
 - * Architected and implemented an API mocking system to improve development efficiency:
 - Built a Go-based REST API with auto-generated endpoints from OpenAPI V3 specification
 - Developed a React web app with SSO integration for API documentation and mocking interface
 - Implemented Jenkins CI pipeline for automated API mock updates and documentation synchronization
 - * Significantly reduced frontend-backend development dependencies and improved sprint efficiency
 - **DevOps & Infrastructure:**
 - * Created custom SonarQube QualityGate configurations enabling flexible code coverage requirements:
 - Implemented file-specific and branch-based test coverage thresholds
 - Facilitated legacy code maintenance while maintaining code quality standards
 - * Developed Helm Chart generation tools to streamline Kubernetes service onboarding
 - * Optimized microservices performance and resolved scalability issues
 - **System Reliability:**
 - * Managed component uptime and availability through HA best practices
 - * Conducted service capacity planning and performance optimization
 - **Technical Development:**
 - * Designed and implemented scalable solutions using Go.
 - * Collaborated with cross-functional teams for complex feature development.

Nusatek.id - IT Consultant & Software House

Lead Backend Engineer | Feb 2019 - Aug 2019 Jakarta, On-site

- **Tech Stack:** Node.js, Express.js, Go, React, Docker, MongoDB, MySQL

- **Key Achievements:**

- **Full-Stack Development:**

- * Created management dashboard for ManyOption (moaja.id) using React.
 - * Developed API for apartment room CSV import using Express.js & MongoDB.

Software Engineer | Sep 2018 - Feb 2019

Jakarta, On-site

- **Tech Stack:** Node.js, Express.js, React, MongoDB

- **Key Achievements:**

- **Application Development:**

- * Built management dashboard frontend using React.
 - * Developed CSV import API using Express.js and MongoDB.

Volantech.io - IT Consultant and Software House

SWE, Junior Backend | Sep 2018 - Feb 2019

Jakarta, Freelance

- **Tech Stack:** Node.js, MongoDB, Meteor.js, Angular.js, Angular 5

- **Key Achievements:**

- **Asian Para Games 2018:**

- * Developed web applications and REST APIs using Node.js stack.
 - * Created interactive web interfaces using Angular frameworks.
 - * Ensured seamless integration between frontend and backend systems.

Hyperpedia.id - PC Gaming Consultant and Store

Full-Stack Engineer | Mar 2018 - Sep 2018

Jakarta, Freelance

- **Tech Stack:** PHP, WordPress, Custom Plugins, Custom Themes, CSS

- **Key Achievements:**

- **Custom Development:**

- * Created custom WordPress plugins for PC assembly interface.
 - * Designed and implemented responsive user interfaces.
 - * Developed maintainable, client-specific solutions.

SKILLS

Programming Languages Go, Node.js, TypeScript, Python, PHP, Elixir (Learning).

DevOps Jenkins, Terraform, Ansible, Docker, Docker Compose, Docker Swarm, Kubernetes.

Datastore MongoDB, PostgreSQL, Redis, Aerospike, MySQL.

Message Broker/Queue Kafka, RabbitMQ, SQS.

Cloud AWS, GCP, Azure, UpCloud, Vultr, Digital Ocean, Alibaba Cloud.

Front-End Framework React, Remix, Next.js.

Back-End Framework Echo, Nest.js, Express.js, Laravel, Symfony.

Mobile Framework React Native.

Language Bahasa Indonesia, English.

Interests Software Engineering, AI, LLM, Brazilian Jiu-Jitsu.

CERTIFICATION & TRAINING

2024 [GitHub] [GitHub Foundations](#)
2021 [Alibaba Cloud] 6th Generation Elastic Compute Service Technical Essentials
2021 [Alibaba Cloud] Relational Database Service Technical Operations
2021 [Alibaba Cloud] Cloud Computing Using OSS to Publish a Static Website
2021 [Alibaba Cloud] Using ECS to Construct a Dynamic Website
2020 [AWS] Advance Architecting on AWS
2020 [AWS] AWS Cloud Practitioner
2019 [Coursera] GCP Platform Fundamentals: Core Infrastructure by Google Cloud
2019 [Hacktiv8] Scalable Web Services with Golang Class

EDUCATION

Asia Cyber University | *Bachelor of Accounting*

2024 - On Going