# 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

Engineering Team | Jan 2020 - Now                                      Bali, Remote

- Tech Stack: Node.js, Nest.js, Express.js, Go, MongoDB, Redis, React, Kafka, AWS
- I lead Mejadokter's goals to transform health-care operations by digitizing medical data and clinical management systems. Leading the technology strategy and development, I am committed to producing solid digital solutions that improve operational efficiency and client satisfaction.
- Key achievements include:
  - Developed and deployed a powerful data migration tool to help health facilities seamlessly convert from several clinic management programs to Mejadokter. This solution has drastically decreased onboarding times and increased data accuracy for new clients.
  - Led a dynamic team in the development and deployment of Mejadokter's primary products, which drove the company and enabled 50+ of clinics to improve service delivery, patient care, and employee management.
  - Developed and implemented a strategic technology roadmap that includes major integrations such as Integrasi SatuSehat, Integrasi BPJS Antrian Online (aplikasi JKN), Integrasi BPJS Pcare, and a CRM system for patient management in clinics.
  - Developed and implemented Marketing and Customer Relationship Management (CRM) solutions tailored for clinics to enhance patient engagement and retention.
  - Designed and launched a user-friendly website builder for clinics, aimed at improving online presence and patient interaction.
  - Building Mejadokter Infrastructure from scratch, ensuring scalability and reliability.

### TradersFamily.id - Trading Forex

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

- **Tech Stack:** Jenkins, Terraform, Docker, Docker Swarm
  - 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.

**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 99.9% database uptime 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

- Tech Stack: Go, Docker, PostgreSQL, Redis, React, React Native, AWS, GCP
- 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. I have successfully maintained nearly zero major incidents annually through effective management and team leadership.
- DevOps:
  - 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 and empowering developers.

- Quality Assurance:
  - Standardized QA processes, including test cases, bug reports, and test plans under my leadership.
  - Advanced the implementation of automation testing across teams, setting up essential tools and fostering collaboration between manual and automation teams.

- Back-End Development:
  - Established project templates based on clean architecture to enhance unit testing and maintainability.
  - Conducted thorough reviews of database designs and critical feature implementations to ensure robustness and performance.

- People and Team Management:
  - Streamlined the interview and testing processes for new software engineers to match team and business needs.

- – Engaged in regular one-on-one meetings to ensure alignment and foster open communication.
- – Led performance reviews and conflict resolution to maintain a conducive and safe work environment.
- – Initiated regular sharing sessions and team activities to boost knowledge exchange and mental health.
- Planning and Implementation:
  - – Standardized task breakdown from user stories and enforced the effective use of Jira for project management.
  - – Championed Sprint Planning and Sprint Grooming sessions to optimize team workflows and deliverables.

## Chatat - PoS, Accounting, Web Builder

### CTO | Mar 2022 - Sep 2022                                    Jakarta, Remote
- Tech Stack: Go, Docker, PostgreSQL, Redis, React, React Native, AWS.
- Responsible for outlining the company's technological vision and implementing technology efficiency strategies on Chatat's daily operations.
- Lead the team to build and roadmap profitable products to power up Chatat's business.
- Conduct root-cause analysis to identify pain points in each department.
- Manage the technology organization by overseeing the technology talent strategy, which includes product, design, and technology teams.

### Head Of Engineering | Jul 2021 - Mar 2022                   Jakarta, Remote
- Tech Stack: Go, Docker, PostgreSQL, Redis, React, React Native, AWS.
- Leading and overseeing the engineering department of Chatat; from hiring and training new team members to managing tech projects.
- Managing engineering projects from start to finish by developing any SOP related to the company's continuous improvement goals.
- Empowering the tech team at Chatat by implementing monthly one-on-one reviews, sharing sessions, and designing training specifications.
- Developing and implementing the scrum methodology.
- Design strategies for future development projects based on the Chatat's overall objectives and resources.

### Lead Backend Engineer | May 2021 - Jul 2021                 Jakarta, Remote
- Tech Stack: Go, Docker, PostgreSQL, Redis, React, React Native, AWS.
- In charge of all backend project improvements, such as build automation for BitBucket Pipeline deployment, build documentation for easy onboarding to the backend codebase, and building the service for easy configuration by DevOps.

## AVANA - Social Commerce & Web Builder

### DevOps Engineer | Jul 2021 - Nov 2021                       Malaysia, Remote
- Tech Stack: AWS, Docker, MySQL, PHP, Laravel, Symphony, React, Serverless
- At AVANA, I spearheaded the successful migration of our legacy service deployment from EC2 to Fargate, significantly enhancing our system's capacity to handle an increase from 283 requests per second (RPS) to over 13,000 RPS, crucial during flash sales events, all achieved with zero downtime.
- My responsibilities included analyzing the existing technology to develop a comprehensive improvement plan for our engineering teams.
- I established key milestones and streamlined processes to enhance collaboration across departments, ensuring efficient project progression.
- Additionally, I supported engineers in various departments by assisting in the creation and demonstration of practical solutions, fostering a collaborative environment and enhancing team capabilities in deploying scalable, robust solutions.

**Grab**

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

- Tech Stack: Go, Docker, MySQL, Kafka, Redis, Aerospike, Jenkins, Kubernetes
- Participate in the development of merchant.grab.com from the ground up through the completion.
- Development of backend API endpoints using Go, MySQL, Aerospike, and Kafka.
- Connect Kafka data sources to Grab API.
- Creating engineering documentation such as engineering specifications and tutorials to assist engineers in joining my team.
- Developing docker-compose for the frontend team to facilitate project management.

### SWE, Backend (GrabKios) | Aug 2019 - Apr 2020        Jakarta, Hybrid

- Tech Stack: Go, Docker, MySQL, Kafka, Redis, Aerospike, Jenkins, Kubernetes
- Design and implement using cutting edge Go language and constantly improve the availability, scalability, latency, and efficiency of the platform.
- Collaborate with product analysts, managers and data science teams to define and prototype and build complex product features on our platform.
- Manage uptime and availability of components/services to our internal users by implementing High Availability tools and best practices.
- Participate in code and design reviews to maintain our high development standards.
- Engage in service capacity and demand planning, software performance analysis, costing, tuning and optimization.

**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.
- Work as a front-end engineer on the development team to create a management dashboard for ManyOption (moaja.id). This is written in React.
- Work as a backend engineer on the development team to create an API for importing apartment rooms via CSV. This is written in express.js & MongoDB (Node.js).

### Software Engineer | Sep 2018 - Feb 2019        Jakarta, On-site

- Tech Stack: Node.js, Express.js, React, MongoDB
- Work as a front-end engineer on the development team to create a management dashboard for ManyOption (moaja.id). This is written in React.
- Work as a backend engineer on the development team to create an API for importing apartment rooms via CSV. This is written in express.js & MongoDB (Node.js).

**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
- During the Asian Para Games 2018, I was involved in the development of web applications and REST APIs as both a backend and frontend engineer. Utilizing NodeJS frameworks, Meteor.js for the backend and Angular for the frontend, I contributed to creating interactive, responsive web applications that supported the event's operations and user engagement.
- My role encompassed the full stack of development tasks—from designing and implementing APIs to developing and refining the frontend interface, ensuring seamless integration and optimal performance across platforms.

**Hyperpedia.id - PC Gaming Consultant and Store**

### Full-Stack Engineer | Mar 2018 - Sep 2018        Jakarta, Freelance

- Tech Stack: PHP, Custom WordPress Pluggin, Custom WordPress Themes, CSS.

- I specialize in creating custom plugins and pages tailored to customer needs, enabling users to assemble computers through a dynamic and intuitive form interface. Utilizing my expertise in PHP, CSS, and JavaScript, I design and implement these custom solutions to enhance user experience and functionality.
- My work involves writing clean, maintainable code that not only meets specific client requirements but also ensures a seamless and responsive user interaction.

## 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**