

Umar Sabirin

DevOps Engineer | Platform, SRE & Cloud

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PROFESSIONAL SUMMARY

DevOps engineer with 5 years across backend and DevOps, strong in AI, cloud, and security. Builds infrastructure from the ground up across cloud and bare-metal, with AI woven into CI/CD, observability, and incident response.

PROFESSIONAL EXPERIENCE

Apple Developer Institute for DevOps x S-Quantum Engine

Tangerang, ID

DevOps Engineer • Full-time

Mar 2026 – Present

- Built infrastructure CI/CD in Jenkins for IaC (Terraform) and CaC (Ansible), with lint, test, and security gates.
- Reduced pipeline stage time ~83% via parallelization, dependency caching, and selective re-runs.
- Integrated Infracost into the IaC pipeline to flag cost increases before provisioning.
- Automated hardened golden-image builds with Packer, applying CIS/STIG benchmarks and Trivy scans.
- Built cost- and security-aware observability (Prometheus, Grafana, ELK) with automated alerting.
- Implemented AI for root-cause detection and auto-fixes across monitoring and CI/CD pipelines.

Maxcloud (PT Awan Data Indonesia)

Bekasi, ID

Platform Engineer • Full-time

Jul 2025 – Mar 2026

- Built a Go engine multiplexing 19,400+ concurrent gRPC/SSE streams from 194 agents at millisecond latency.
- Built a custom Go orchestrator over QEMU/QMP, cutting VM boot to 2s (~300% faster than Proxmox).
- Sustained near-100% payment availability via multi-gateway failover with rate limiting and 2FA.
- Reduced tenant branding deploys from 45 min to <5s with a JSON-driven config system for 6+ enterprise tenants.
- Reduced network provisioning ~40% with a self-service LBaaS on HAProxy + nftables at the kernel level.
- Built unit, integration, and smoke tests in Go for payment failover, gRPC lifecycle, and VM orchestration, gated in CI.

Freelance / Self-Employed

Remote

Software Engineer

Mar 2023 – Jun 2025

- Benchmarked 5 concurrency strategies in Spring Boot; Kafka sustained 2,683 req/s, ~3 orders over the sync baseline.
- Architected microservices (API, notifications, real-time chat) over RabbitMQ and WebSocket, with Elasticsearch search and ELK audit logging.
- Hardened production APIs with layered architecture, JWT/Sanctum auth, Redis caching, and rate limiting.
- Served as system architect and backend code reviewer for a multi-stakeholder government research platform.
- Delivered domain platforms across maritime (RBAC ops), retail (web admin + Python POS), and education (multi-role MIS).

Fairtech Pte Ltd

Makassar, ID

Software Developer • Full-time

Jun 2021 – Feb 2023

- Improved multi-tenant query performance ~50% through targeted indexing and SQL refactoring on high-traffic tables.
- Built localized business logic across multiple Southeast Asian country sites for a global imaging brand.
- Integrated a shipping aggregator across 15+ couriers with caching, retries, and error handling for resilient checkout.
- Integrated Zoom for product webinars with automated scheduling and attendance tracking.
- Built a full-text Elasticsearch search feature to improve product discovery.

Software Developer Intern

Mar – Jun 2021

- Improved the content-management workflow with a custom drag-and-drop component editor.
- Hardened application security with aligned client-side and server-side validation.
- Built an internal attendance-tracking system.
- Designed and improved the database schema.

TECHNICAL SKILLS

Languages: Go (primary), PHP (Laravel), Java (Spring Boot), Groovy (Grails), Bash

Architecture & APIs: Distributed Systems, Microservices, Event-Driven, Multi-tenant Architecture,DDD, gRPC, REST, WebSocket

AI & LLM: LLM product integration, Prompt engineering, LLM-based PR review, AI-assisted CI/CD remediation & alerting, AI-assisted root-cause analysis

Data & Messaging: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Kafka, RabbitMQ, SQS

Cloud: AWS (EC2, EKS, S3, RDS, IAM, VPC)

Containers & Orchestration: Docker, Kubernetes

IaC & CaC: Terraform, Ansible

CI/CD: GitHub Actions, GitLab CI, Bitbucket, Jenkins

Observability: Prometheus, Grafana, Loki, Tempo, Mimir, Pyroscope, ELK, eBPF, OpenTelemetry

Security: CIS/STIG hardening, SonarQube, Snyk, Trivy, SAST, DAST, Vault (secret management), OPA/Rego, Kyverno, RBAC, 2FA, mTLS/TLS

Reliability: SLI/SLO/SLA, Error Budgets, Incident Response, RCA, Postmortems, MTTR/MTTD

Systems & Virtualization: Linux, Proxmox, QEMU/KVM (QMP), LXC/LXD, ZFS, Bare-metal provisioning, PXE/netboot, cloud-init

Web & Proxy: Nginx, HAProxy

Networking: nftables, OpenVPN, DNS, IPv6/SLAAC

EDUCATION

Bachelor of Information Systems – Hasanuddin University

Aug 2020 – Feb 2025

GPA: 3.82 / 4.00

Thesis: Web-Based Student MIS Design using Design Thinking (Case Study: Pondok Informatika).

Independent Study – Metaverse Asset Creation & Commercialization (MSIB / Kampus Merdeka)

Feb – Jun 2023 · 20 credits

Led a team creating 3D digital assets, a metaverse environment, and a Roblox house-design simulator (Lua), with CIAS and WIR Group.

Teaching Assistant, Web Programming – Hasanuddin University

Aug – Dec 2022

Taught Web Programming and Java/Python fundamentals to 200+ students, with one-on-one debugging and design guidance.