Ibrahim Fiqhan

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Platform and DevOps engineer with **eight years** across infrastructure, operations and software. Builds and runs the environments other engineers deploy through: separate dev, staging and production estates with their own access paths and secrets, CI/CD standardised across a **150+ application** portfolio, and self-hosted Prometheus, Grafana, Loki and Tempo with alerting that catches degradation before users report it. Has twice moved a live estate onto new infrastructure **without a downtime window**, which is the part of a transition that is difficult. Red Hat certified in containers, Kubernetes and **OpenShift**. Works AI-first, with **Claude Code** as the primary working mode.

WORK EXPERIENCE

DevOps Engineer *Mar 2026 - Present*
Apple Developer Institute for DevOps (Contract) · Tangerang Selatan, Indonesia

- Set up and run **dev, staging and production as separate environments** with their own access paths, provisioned from one Terraform module set through Atlantis plan/apply review with Checkov policy scanning in CI.
- Operate dev, staging and production for a microservices platform (Python backend, Next.js frontend, Go workers) with strict segmentation: production behind a public ALB with Auto Scaling, staging behind a private ALB, and every stateful service (RDS PostgreSQL, Redis, NATS, RabbitMQ) in private subnets.
- Built end-to-end CI/CD on Bitbucket Pipelines and Jenkins with pre-commit hooks, vulnerability checks and self-hosted SonarQube gates; **semantic-versioned builds promote through dev and staging behind a manual gate into production**, so a release is a decision rather than a side effect of a merge.
- **Manage application configuration and secrets across every environment** through AWS Secrets Manager with External Secrets Operator in-cluster, and gate access to private resources behind an Ansible-deployed VPN.

DevOps Engineer & Solutions Architect *Jan 2025 - Present*
fiqhan.dev (Self-Employed) · Surabaya, Indonesia

- Migrated 50+ legacy PHP applications from shared cPanel hosting to isolated Docker containers, cutting deployment from roughly 15 minutes of manual work to under 2 via push-to-deploy GitLab CI/CD.
- Chose FrankenPHP and Caddy over the conventional stack to cut resource overhead and resolve dependency conflicts at the runtime level, with automated SSL and Cloudflare DNS.
- Provisioned self-hosted GitLab Runners at group level and wrote Bash provisioning automation that halved new site setup time.

IT Expert Officer, Development Team *Mar 2021 - Present*
Government of East Java · Surabaya, Indonesia · On-site

- Own the self-hosted GitLab platform the development team depends on: version upgrades, runner configuration for concurrent builds, and the pipelines that build Docker images and deploy to production.
- Migrated **150+ live web applications** from WHM hosting onto Docker containers **with no downtime window**, cutting each application over to the new platform while the old one stayed serving.
- Installed a self-hosted LGTP observability stack, deploying Grafana Alloy agents across managed servers with alerting routed to Telegram so incidents surface before users report them.
- Administer 3 WHM servers hosting 900+ accounts across the *.jatimprov.go.id domain portfolio.

IT Expert Officer, Operation Team *Mar 2019 - Feb 2021*
Government of East Java · Surabaya, Indonesia · On-site

- Held responsibility for uptime across the organisation's network and data centre, maintaining 99.9% uptime through proactive monitoring that cut incident response time, and analysed firewall logs to mitigate threats before they reached production.

PHP Programmer *Sep 2018 - Dec 2018*
PT. Sinergi Informatika Semen Indonesia · Gresik, Indonesia

- Delivered a custom HRIS in a fixed 3-month window, cutting manual administrative processing time by 40%.

PROJECTS

- **Titen**, offline-first field survey platform (titen-app.my.id)
  Solo four-week build: Flutter app, Go API, PostgreSQL, MinIO and Docker, self-hosted throughout. The sync layer is the substance: a per-mutation outbox with exponential backoff, endpoints made idempotent on a client-generated UUID, and **single-flight locking so concurrent sync cycles cannot overlap**. Instrumented on **sync latency, stuck mutations and service errors**. Across 200 submissions on unstable signal: **0% data loss**.

- **dbtool-cli** (github.com/imfiqhan/dbtool-cli)
  Cross-platform CLI in Go automating provisioning, scheduled backups, restore and retention across PostgreSQL and MariaDB. Smart retention removed a recurring storage-exhaustion risk and cut roughly 30% off routine database work.

SKILLS

- **Linux & Systems**: Debian, Ubuntu and Alpine administration across eight years, with Bash automation for provisioning, backup and routine operations.
- **Containers & Kubernetes**: Docker, Docker Compose and Podman. Helm charts written from scratch with named templates, per-environment values and lifecycle hooks. **App-of-apps GitOps on ArgoCD**, where CI commits the image tag to a separate infrastructure repository and the cluster reconciles from git rather than CI pushing into it. Gateway API on NGINX Gateway Fabric as the ingress layer, External Secrets Operator against AWS Secrets Manager, StatefulSets on EBS, HPA and PodDisruptionBudget. Built on EKS and kubeadm across two environments. Red Hat certified in containers, Kubernetes and OpenShift (80 hours, 2022).
- **Infrastructure as Code**: Terraform (modules, remote state, one module set fanned out across dev, staging and production) with Atlantis for automated plan/apply review and Checkov policy scanning in CI; Ansible (roles, dynamic inventory, Molecule) and Packer image baking.
- **CI/CD & Release**: GitLab CI/CD standardised across an estate of 150+ applications with self-hosted runners, plus Jenkins, GitHub Actions and Bitbucket Pipelines. Pre-commit hooks, SonarQube quality gates, vulnerability scanning, semantic-versioned builds and **staged promotion through dev and staging behind a manual production gate**. **Rollback** by reverting the image tag in the GitOps repository, so the cluster reconciles back to a known-good revision rather than being patched by hand.
- **Observability**: **metrics, logs, traces and dashboards** on self-hosted Prometheus, Grafana, Loki and Tempo, built twice from scratch, with Grafana Alloy agents across managed servers and alerting routed to where the team already works. Diagnosed and fixed a **cardinality explosion** caused by raw-path metric labels, using relabelling before remote write.
- **Cloud & Networking**: AWS (EC2, VPC, ALB/ASG, RDS, S3, CloudFront, SQS, SES, Secrets Manager, CloudWatch) and GCP; Caddy and Nginx for L7 routing and TLS termination; Cloudflare DNS with automated SSL; VPN-gated private access, network segmentation and firewall log analysis.
- **Databases & Messaging**: PostgreSQL, MariaDB/MySQL and Redis in production behind private subnets; RabbitMQ, NATS and SQS as broker and queue layers; Meilisearch for search; backup, retention and restore automated in Go.
- **Software Engineering**: Go, Bash, PHP/Laravel and Python; operates Python, Go and Next.js services alongside the infrastructure that runs them.
- **AI-First Engineering**: **Claude Code** as the primary working mode for infrastructure, automation and tooling. Delegates real implementation to coding agents, reviews agent-written Terraform and manifests critically, and keeps agent instructions versioned in-repo alongside the code.

EDUCATION

Bachelor's degree, Informatics *Sep 2014 - Feb 2018*
University of Brawijaya · Malang, Indonesia · GPA 3.81 of 4.00

CERTIFICATIONS

- **ICT Project Manager** · BNSP · Nov 2025
- **AWS Cloud Developing** · AWS with Kominfo Digitalent · 120 hours · Jun 2024
- **AWS Certified Solutions Architect - Associate** · Amazon Web Services · May 2024 · verify credential
- **Containers, Kubernetes and OpenShift** · Red Hat with Kominfo Digitalent · 80 hours · Jun 2022
- **MikroTik Certified Network Associate** · MikroTik · Jul 2019

LANGUAGES

- **Bahasa Indonesia** · Native proficiency
- **English** · Limited working proficiency; spoken fluency is the limit, not comprehension. Technical English daily.