

# SHAFWAN ILHAM DZAKY

Sleman, Yogyakarta, 55515, Indonesia | [ilhamdzaky2007@gmail.com](mailto:ilhamdzaky2007@gmail.com)  
+6282139711207 | <https://github.com/szuryuu> | <https://ilhamdzaky.my.id>

## SUMMARY

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Full Stack and DevOps Engineer with 9 months of hands-on experience in cloud-native infrastructure, CI/CD pipeline automation, and production-grade web application development. Proficient in Infrastructure as Code (IaC) using Terraform, container orchestration with Docker and Kubernetes, and end-to-end Azure cloud deployments. Certified in networking (MTCNA) with demonstrated ability to deliver independently in remote and hybrid environments.

## EXPERIENCE

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### DevOps Engineer Intern

PT Botika Teknologi Indonesia

Nov 2025 - Apr 2026

Yogyakarta, Indonesia (Hybrid)

- Engineered a complete Azure end-to-end DevOps pipeline using Terraform (IaC), Docker, GitHub Actions CI/CD, Trivy security scanning, Azure Managed Identity, Key Vault, and Application Insights observability.
- Built two variants of an Auto Discover VMs system using Envoy Proxy with Go xDS control plane and Consul Template, enabling real-time IP discovery across dynamic Azure infrastructure without manual reconfiguration.
- Developed a MySQL load testing tool in Go leveraging concurrent goroutines to simulate high-concurrency database load and capture quantitative performance benchmarks for capacity planning.
- Created a custom Dokku plugin in Bash and Go to replace subdomain-based routing with path-based routing on Nginx, simplifying multi-application deployment management.
- Evaluated HashiCorp Boundary for Zero Trust access management and IncidentFox as an SRE incident management platform, documenting integration findings and runbooks.

### External Code Reviewer — Front End

Dicoding Indonesia

Sep 2025 - Present

Remote

- Revamped company landing page codebase by refactoring legacy code, eliminating hardcoded secrets, and migrating all sensitive configuration to environment variables without disrupting live functionality.
- Integrated a user registration form with Google Sheets API via server-side OAuth2, enabling non-technical teams to access structured user data without direct database access.
- Implemented Single Sign-On (SSO) integration on the landing page using OAuth2, delivering a consistent and seamless authentication experience across company platforms.

### Full Stack Developer Intern

PT Botika Teknologi Indonesia

Jul 2025 - Oct 2025

Yogyakarta, Indonesia (Hybrid)

- Review and evaluate front-end submissions from developers enrolled in Dicoding learning paths, enforcing scalable architecture, maintainability standards, and secure coding practices.
- Provide structured, actionable feedback to improve overall code quality, component design, and adherence to modern web development standards.

## SELECTED PROJECTS

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**CloudOps: Azure GitOps Platform** | Azure · AKS · Terraform · GitHub Actions · Go · Nginx · Prometheus

- Provisioned an Azure Kubernetes Service (AKS) cluster with Terraform using SystemAssigned Managed Identities for zero-credential, passwordless ACR image pulls.
- Configured path-based CI/CD pipelines in GitHub Actions triggered per directory change (frontend / backend / infra), decoupling application and infrastructure lifecycles.

- Deployed kube-prometheus-stack via Helm with custom alerting rules and Grafana dashboards for proactive node and pod health monitoring.

#### **Dynamic VMSS Auto-Discovery & Mesh** | Go · Envoy Proxy · Azure VMSS · Terraform · Cloud-init

- Implemented metric-driven autoscaling rules (CPU > 75% scale-out, < 25% scale-in) via Terraform-managed Azure Monitor, reducing cloud compute waste.
- Built a Go control plane that continuously tracks ephemeral VMSS instances via Azure SDK and streams updated routing topology to Envoy via gRPC xDS, achieving zero-downtime configuration updates.

#### **MySQL Load Test** | Go · Gopacket · Prometheus · MySQL

- Captured real production SQL traffic from network packets (PCAP) using Gopacket without adding load to the database, avoiding the overhead of enabling general query logs.
- Replicated production traffic patterns with weighted query selection and goroutine-based concurrency; exported p95/p99 latency and QPS metrics to Prometheus in real time.

#### **LaporCepat: AI-Powered Disaster Reporting** | Nuxt 4 · Groq Whisper · Google Gemini 2.5 Flash · Firebase · SSE

- Built a voice-first emergency reporting pipeline where citizen audio is transcribed via Groq Whisper and structured by Gemini 2.5 Flash into severity level, disaster type, and victim estimates.
- Implemented Server-Sent Events (SSE) on a Vercel serverless backend to stream live incident reports to a dispatcher dashboard without polling or WebSocket overhead.

## **SKILLS**

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**Cloud & Infrastructure:** Microsoft Azure (VM, VNet, AKS, ACR, Key Vault, Monitor), Terraform, Ansible, Cloud-init

**CI/CD & DevOps:** GitHub Actions, Docker, Nginx, Kubernetes, Prometheus, Grafana, Trivy, Envoy Proxy

**Backend:** Go, Node.js, PHP (Laravel), Bash, MySQL

**Frontend:** Vue 3, Nuxt 4, TypeScript, JavaScript, Tailwind CSS

**Security:** OAuth2, SSO, Zero Trust (HashiCorp Boundary), MTCNA, Wazuh SIEM, Vulnerability Scanning

**Tools & Practices:** Git, Linux, Infrastructure as Code, RESTful API, Agile/Scrum

## **CERTIFICATION**

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- MTCNA (MikroTik Certified Network Associate) – MikroTik May 2025
- Full Stack Web Development — Coding Camp Cohort – DBS Foundation × Dicoding Indonesia Apr 2025
- CyberDefense Fundamentals – ID-Networkers CyberDefense Bootcamp Mar 2026

## **EDUCATION**

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**SMK Negeri 2 Depok Sleman**  
Sistem Informasi Jaringan dan Aplikasi (SIJA)

2022 - 2026  
Yogyakarta, Indonesia