

Muhammad Herwindra Berlian

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Summary

System Engineer and DevOps Specialist with 9+ years of experience managing hybrid infrastructure, automating deployments, and implementing CI/CD across Windows/Linux systems and cloud platforms (AWS, GCP, Azure). Delivered containerized solutions and GitOps pipelines using Kubernetes and Terraform, reducing deployment time by 40% and infra costs by 20%. Migrated legacy apps, improved uptime, and mentored 100+ engineers in AWS DevOps training programs. Strong in automation, system reliability, and cost-efficient operations.

Skills

Cloud & Infra	GCP, AWS, Azure, IaC, Terraform, Helm Charts, YAML, Shell Script, NGINX, OPNsense.
DevOps & Automation	GitLab CI, GitHub Actions, ArgoCD, FluxCD, GitOps, GitLab Runner, Kubernetes (GKE, EKS, AKS), Docker, HashiCorp Vault, SonarQube (SAST), Python, Golang, Bash, Portainer, Redpanda.
Database & Systems	PostgreSQL, MySQL, SQL Server, AlloyDB, Redis, MinIO, Firestore, Rook Ceph, Hadoop, Prometheus, Grafana, Datadog, Kwatch, Botkube, Redis Insight, Uptime Kuma, Nagios.

Work Experience

Gardeneur Inc. (Letshubon.com) *San Jose, California, United States*

DevOps Engineer (June 2025 – Present) – Remote

Currently working on a cloud migration project from GCP to Azure, focusing on infrastructure as a code, deployment and automation.

PT Privy Identitas Digital (Privy.id) *Yogyakarta, Indonesia*

DevOps Engineer (February 2023 – June 2025) 2 years 5 months – Hybrid

I progressed from System Engineer → SRE → DevOps Engineer in a hybrid cloud-native environment. I led and contributed to the design, deployment, and optimization of cloud infrastructure and DevOps practices across GCP and AWS environments.

Infrastructure & Cloud Engineering

- Migrated legacy workloads from on-prem to GCP (e.g., Biznet → GCP, GCR → Artifact Registry), reducing infra management effort by 40%.
- Implemented and refactored GitOps-based CD using FluxCD and Helm; improved release traceability and rollback speed.
- Built and maintained Terraform-based IaC modules for provisioning Kubernetes (GKE), databases, and network components.

CI/CD & Release Automation

- Developed GitLab CI pipelines and GitOps deployment flows; reduced manual deployment steps by 70%.
- Enabled blue-green deployments using release candidate flows, improving production stability.
- Integrated SAST using Gosec and SonarQube, enforcing secure and quality code delivery.

Observability & Cost Optimization

- Integrated Kubecost and Datadog to enhance resource visibility; reduced K8s cost waste by ~20%.
- Managed centralized logging and monitoring using tools like Prometheus, Grafana, Kwatch, Botkube, and custom scripts.

Security & Operations

- Managed HashiCorp Vault for multi-service secret handling.
- Designed HPA (Horizontal Pod Autoscaler) and CRD configs to improve auto-scaling and traffic management during spikes.
- Oversaw IP whitelisting and domain routing for multiple production stages.

Tools & Automation

- Built Python-based internal tools to automate daily ops and research tasks.
- Introduced and evaluated tools like ClickHouse, Signoz, Debezium, and Uptime Kuma for platform enhancement.

Social Economic Accelerator Lab powered by AWS (SEAL.or.id) *Malang, Indonesia*

AWS Cloud and DevOps Instructor (February 2024 – July 2024) 6 months – Remote

I was appointed as a technical instructor in the AWS Full Stack Cloud Engineer – Kampus Merdeka SIB program, delivering hands-on training for the *Container Management and Orchestration* track with a focus on Kubernetes and AWS-native DevOps.

- Designed and delivered the top-rated module (41.2%), covering Docker fundamentals, lifecycle, security, and orchestration using Kubernetes, EKS, ECS and ECR.
- Guided students through microservice deployment on AWS with Helm, readiness/liveness probes, and autoscaling.

- Recognized as the highest-rated mentor (58.8%) for clarity, delivery, and interaction in the mid-program survey.
- Trained 100 active participants across 59 universities; increased AWS certification readiness (ACF, ACA).
- Led collaborative learning and project-based mentoring sessions, facilitating team-based AWS Cloud practices.

PT Sinergi Informatika Semen Indonesia (SISI.id) Jakarta, Indonesia

System Architect (January 2021 – February 2023) 2 years 2 months – Hybrid

I led system modernization by introducing DevOps practices, containerization, and scalable architecture.

Infrastructure Modernization

- Migrated 5+ legacy binary apps (Laravel, Vue.js) from native deployments to Dockerized containers, reducing environment inconsistency and improving release velocity.
- Introduced Portainer for managing container lifecycle across dev, staging, and production.
- Integrated GitLab CI/CD pipelines to automate testing, deployment, and rollback procedures.
- Configured AWS services including EC2, RDS, and S3 to support production workloads and storage pipelines.
- Deployment cycle reduced by ~40%, improving delivery reliability and team autonomy.

System Design & Architecture

- Designed scalable, modular system architecture for multi-tenant SaaS and on-prem deployments using VMware, Hyper-V, PostgreSQL, SQL Server, and NGINX.
- Led cross-functional system integration for e-Gov, BUMN and IoT solutions, handling data pipelines, dashboard analytics.
- Managed system lifecycle from requirement gathering to production support with full documentation and release tracking.
- Supported 3 major BUMN platforms with zero critical incidents during production rollout.

System Engineer (January 2018 – December 2020) 3 years – Hybrid

Maintained critical enterprise infrastructure, introduced automation, and ensured application reliability.

- Deployed and maintained hybrid Windows/Linux servers (Windows Server, CentOS) with uptime >98.5%.
- Automated backup and release operations using Bash, PowerShell, Python, reducing recovery time and human error.
- Configured Prometheus for real-time monitoring and integrated Zabbix and Nagios to support alerting, service health checks, and incident escalation in legacy environments.
- Supported 7+ business units running integrated SAP and Microsoft Dynamics AX systems.
- Collaborated with development teams to implement staging-to-production flows using NGINX and secure networking.
- Reduced release-related downtime by ~50% and improved SLA compliance across core services.

Software Engineer (September 2016 – December 2017) 1 year 4 months – Onsite

Early-career contributor building internal platforms and digitizing approval processes.

- Built and launched 3+ enterprise web apps using Laravel, CodeIgniter, and Vue.js for internal e-Procurement workflows.
- Integrated backend systems with SAP for automated approval tracking and report generation.
- Developed mobile-first UI using Bootstrap and React Native for SHE (Safety, Health, Environment) reporting apps.
- Reduced paper-based process time by ~60%, improving approval accuracy for 5+ departments and cutting submission delays by 2–3 days per cycle.

Certifications

Amazon Web Services (AWS)	<ul style="list-style-type: none"> • AWS Certified Solutions Architect – Associate (SAA-C03) – Issued Jun 2025 – Expires Jun 2028 • AWS Certified Cloud Practitioner (CLF-C02) – Issued Dec 2023 – Expires Dec 2026
Microsoft Azure (AZ)	<ul style="list-style-type: none"> • Microsoft Certified: Azure Developer Associate (AZ-204) – Issued Jun 2025 – Expires Jun 2026 • Microsoft Certified: Azure Fundamentals (AZ-900) – Issued Mar 2024 – Lifetime
Linux Foundation (LF)	<ul style="list-style-type: none"> • Certified Kubernetes Security Specialist (CKS) – Issued Nov 2025 – Expires Nov 2027 • Kubernetes and Cloud Native Security Associate (KCSA) – Issued May 2025 – Expires May 2027 • Kubernetes and Cloud Native Associate (KCNA) – Issued Mar 2025 – Expires Mar 2027 • Certified Kubernetes Application Developer (CKAD) – Issued Mar 2025 – Expires Mar 2027 • Certified Kubernetes Administrator (CKA) – Issued Nov 2024 – Expires Nov 2026
Google Cloud Platform (GCP)	<ul style="list-style-type: none"> • Professional Cloud DevOps Engineer (PCDE) – Issued Dec 2023 – Expires Dec 2025 • Professional Cloud Architect (PCA) – Issued Oct 2023 – Expires Oct 2025

Education

Universitas Gadjah Mada (UGM)

Master of Engineering in Information Technology (GPA: 3.64 / 4.00)

Thesis: Cloud Sizing Automation for Platform as a Service Based on Historical Analysis

Yogyakarta, Indonesia

2024 - 2026

Politeknik Elektronika Negeri Surabaya (PENS)

Bachelor of Applied Science in Computer Engineering (GPA: 3.40 / 4.00)

Final Project: Design and Implementation of an Open Platform Cyber-Physical-Human System (Cyber System)

Surabaya, Indonesia

2012 - 2016