

M. Ilhaam Ghiffari

+62-822-7432-7600
ghiffariilhaam@gmail.com | linkedin.com/in/ilhaam-ghiffari-3b3b27217 | github.com/ilhaamghiffari

Summary

DevOps-oriented Informatics graduate (Universitas Syiah Kuala, GPA 3.77/4.00) who ships production infrastructure as code – currently running a live platform-engineering pipeline on Azure AKS (Terraform, Docker, ArgoCD GitOps, OIDC CI/CD, Trivy, Prometheus/Grafana) at ilhaamghiffari.tech. Ranked Top 20 of thousands of teams in the Datathon AI Impact Challenge 2026 (Microsoft Elevate x Dicoding) with a food-price forecasting system (12.38% avg MAPE). Bangkit Academy 2024 ML cohort alumnus; Vice Chair of the Faculty Student Council (DPM FMIPA USK). Seeking a DevOps, Infrastructure, or Security internship at Indonesia's leading SaaS company.

Education

Syiah Kuala University	2026
<i>Bachelor of Science in Computer Science (GPA: 3.77 / 4.00), specializing in Data Mining & AI</i>	<i>Banda Aceh, Aceh</i>
Relevant Coursework: Development and Operations (DevOps), Operating Systems, Computer Networks, Data Communications, Software Architecture, Software Engineering, Database Systems, Data Security and Cryptography, Software Quality, Web Programming	

Technical Skills

Languages: Python, SQL, JavaScript/TypeScript, Bash
DevOps & Cloud: Docker, Kubernetes (AKS), Terraform (IaC), ArgoCD (GitOps), GitHub Actions (OIDC CI/CD), Helm, Azure (Functions, Static Web Apps), GCP (Cloud Run, Cloud Build), nginx, Linux, Git
Observability & Security: Prometheus, Grafana, Blackbox probes, Trivy (container & IaC scanning), cert-manager/TLS, Kubernetes network policies
Data & ML: TensorFlow, Prophet (time-series), scikit-learn, Pandas, NumPy, MongoDB, Streamlit
Concepts: CI/CD Pipelines, Containerization, GitOps, Infrastructure as Code, REST APIs, Data Pipeline & Visualization

Experience

Bangkit Academy	Feb 2024 – Jun 2024
<i>Machine Learning</i>	<i>Online</i>
- Developed expertise in machine learning, including hands-on projects with TensorFlow for CNN, NLP, and time series forecasting. - Worked collaboratively on a capstone project, Dermascan, creating a skin disease detection app using smartphone cameras.	
Department of Informatics, USK	Aug 2024 – Dec 2024
<i>Big Data and Analytics Laboratory Assistant</i>	<i>Banda Aceh, Aceh, Indonesia</i>
- Served as a laboratory assistant for the Big Data and Analytics practicum course at the Department of Informatics, Universitas Syiah Kuala. - Taught and guided students through one semester of practical sessions on database systems and data mining, delivering technical materials and evaluating assignments.	
Balai Wilayah Sungai Sumatera I	Aug 2024 – Oct 2024
<i>IT Staff Intern</i>	<i>Banda Aceh, Indonesia</i>
- Developed an interactive rainfall telemetry dashboard using Streamlit, enabling real-time monitoring of hydrology data across multiple sensor stations. - Integrated and normalized data from three heterogeneous sensor devices (Aptech, Campbell, Tatonas) into a unified MongoDB database, eliminating manual data merging processes. - Designed an interactive map and hourly data table interface to support rapid decision-making for water resource management and hydrometeorological disaster mitigation. - Improved operational efficiency for operators through a structured, accessible data visualization system.	

Projects

- Golden Path** | *Platform Engineering Pipeline, Live on Azure AKS* 2026
- Built an end-to-end platform: an Astro site containerized with Docker/nginx, pushed to GHCR, and deployed to Azure AKS purely via GitOps (ArgoCD auto-sync & self-heal) — ilhaamghiffari.tech, TLS via cert-manager/Let's Encrypt.
 - Provisioned all infrastructure with Terraform (Azure VNet, AKS, Key Vault, locked remote state); CI/CD with GitHub Actions using OIDC (no static secrets), Trivy container & IaC scans gating every push.
 - Added kube-prometheus-stack monitoring, Blackbox uptime probes, Grafana dashboards-as-code, PSA-restricted pods, and network policies.
- Aceh Resilience Monitor** | *Food Price Forecasting, Top 20 Datathon* 2026
- Team project (3 members), Datathon AI Impact Challenge 2026 (Microsoft Elevate x Dicoding): analyzed daily staple-food prices across Indonesia (PIHPS 2023–2025) and built Prophet time-series forecasting models (12.38% avg MAPE).
 - Built an automated serverless daily pipeline (Azure Functions & Static Web Apps) for data collection and validation, with tests and architecture docs — github.com/aceh-resilience-monitor/Aceh-Resilience-Monitor
- DermaScan** | *Skin Disease Detection App, Bangkit Capstone* 2024
- Capstone team project (Bangkit Academy 2024, C241-PS084): trained a CNN image-classification model for 8 skin conditions (test accuracy 97%) using TensorFlow.
 - Deployed the model as a cloud API on GCP (Cloud Run, Cloud Build, Storage, SQL) with a Node.js/Hapi backend serving the Kotlin Android app — github.com/Dermascan-C241-PS084

Certifications

- Bangkit Academy 2024 - Machine Learning Path** July 2024
- Google, GoTo, Tokopedia, Traveloka* Credential ID: M322D4KY3003
- IBM via Coursera: 4 Certifications** Jun – Jul 2026
- DevOps, Cloud Computing, Git & GitHub, CI/CD* III31LEFIYJ9, XF0E6H2QKL9R, XF2T5VNUOCVR, GJK8D0QRMAY

Achievements

- **Top 20, Datathon AI Impact Challenge 2026 (Microsoft Elevate Training Center x Dicoding)**
Team project **Aceh Resilience Monitor** (with 2 teammates) was selected among the Top 20 Datathon teams out of thousands of proposals across Indonesia, and advanced to the Proposal Implementation & Workshop phase (May – Jun 2026). Built a food-price forecasting system with Prophet time-series models (12.38% avg MAPE) and an automated daily data pipeline. github.com/aceh-resilience-monitor

Organizational Involvement

- Inter-Institutional Relations Staff, BEM FMIPA USK** 2022
- Syiah Kuala University* Banda Aceh, Aceh
- As a member of the Inter-Institutional Relations (HUAL) department, handled sponsorship and partnership outreach for all faculty events, ensuring successful collaborations and media coverage throughout the year.
- Vice Head of Inter-Institutional Relations Department, Informatics Student Organization** 2023
- Syiah Kuala University* Banda Aceh, Aceh
- Managed staff allocation across the organization's events and served on the steering committee for department work programs.
 - Personally headed sponsorship and partnership for Dedikasi Informatika, working closely with village heads, sponsors, and media partners.
 - Acted as field coordinator for the Informatics Festival, the organization's annual flagship event.
- Deputy Chairman, Dewan Perwakilan Mahasiswa FMIPA USK** 2024
- Syiah Kuala University* Banda Aceh, Aceh
- Co-led the BEM FMIPA USK work program and accountability (LPJ) sessions with the Chair and Secretary General.
 - Conducted working visits to all FMIPA student organizations to discuss key issues and gather student aspirations.
 - Organized the FMIPA General Session (AD/ART, GBHO/GBHK) and chaired the establishment of the student election commission (Komisi Pemilihan Raya).
 - Led the monthly FMIPA student community meeting with all organization chairs, coordinating schedules, fostering collaboration, and mediating conflicts.