

MUHAMMAD IHSAN

Platform Engineer | AWS | Kubernetes | Terraform

📞 (+43) 6787904427 • 🌐 <https://ihsan.me> • ✉ ihsan.me@gmail.com • 📍 Vienna, Austria

SUMMARY

Platform Engineer with **5+ years** of experience designing, and operating scalable AWS cloud infrastructure. Expertise in Terraform, Kubernetes, Helm, ArgoCD, GitOps, observability, cloud security, and reliability engineering. Proven track record building highly available, secure, and automated platforms leveraging AWS services including EC2, ECS, Lambda, RDS, DynamoDB, S3, IAM, VPC, and API Gateway. Currently pursuing a **Master's degree in Artificial Intelligence** at Johannes Kepler University **Linz**, with hands-on experience in LLMs, AI agents, and Generative AI. Combining AI expertise with platform engineering to build secure, scalable, and intelligent cloud solutions.

PROFESSIONAL EXPERIENCE

Cielo Wigle Inc.

Remote (United States)

Platform Engineer

Sep 2024 – Present (Part-time)

- 99.9% service availability across AWS infrastructure supporting millions of connected IoT devices.
- Contributed to AWS Lambda to Kubernetes migrations, addressing serverless platform limitations and modernizing application delivery using Kubernetes, Helm, and ArgoCD driven GitOps practices.
- 60% faster infrastructure provisioning through Terraform and CloudFormation automation.
- Drive platform security through IAM governance, RBAC, Secrets Manager integration, and least-privilege access controls.
- 40% faster incident resolution through CloudWatch, Prometheus, and Grafana observability.
- Led a zero-downtime migration from DynamoDB to PostgreSQL for relational workloads.
- Built automated ETL pipelines and dashboards, delivering real-time operational insights.

AWS Cloud Engineer

Jul 2022 – Sep 2024 (Full-time)

- Designed, deployed, and maintained AWS infrastructure using EC2, ECS, Lambda, S3, DynamoDB, RDS, VPC, IAM, and Route 53.
- 70% reduction in manual operational effort through Python automation and ETL tooling.
- Implemented IaC with Serverless and CloudFormation, improving deployment consistency and reducing manual provisioning.
- Strengthened AWS security through IAM, Security Groups, Secrets Manager, WAF, and API Security.

EDWIZ Solutions

Lahore, Pakistan

Software Engineer

Mar 2021 – Jun 2022 (Full-time)

- Developed and maintained Python backend services, REST APIs, and automated jobs supporting production workloads.
- Designed and optimized PostgreSQL and Elasticsearch workloads for search, reporting, and application performance.
- Implemented new features and enhancements, improving application functionality and reliability.
- Collaborated with cross-functional teams to deliver scalable and maintainable software solutions.

SKILLS

AWS	EC2, ECS, Lambda, S3, RDS, DynamoDB, API Gateway, CloudFront, Route 53, VPC, Auto Scaling, SQS, SNS
DevOps	Kubernetes, Docker, Helm, Container Orchestration, Workload Scaling, Cluster Operations
Infrastructure as Code	Terraform, Serverless, CloudFormation, Python, Bash
GitOps & CI/CD	ArgoCD, GitHub Actions, CI/CD Pipelines, Release Automation, Deployment Engineering
Observability & Monitoring	Prometheus, Grafana, AWS CloudWatch, Alerting, Performance Optimization
Cloud Security	IAM, RBAC, Secrets Manager, Security Groups, VPC Design, API Security, Least-Privilege Access Control
AI	Master's in Artificial Intelligence (In Progress), Deep Learning, LLMs, AI Agents, Hugging Face, OpenAI APIs
Collaboration & Delivery	Agile, Scrum, Jira, Confluence, Git, Cross-Functional Collaboration, Technical Documentation

EDUCATION

Johannes Kepler Universität Linz

Linz, Austria

Master of Science (MSc), Artificial Intelligence

Oct 2024 – Jul 2026 (Expected)

- Specialization: Robotics, Autonomous Systems, Machine Learning, Deep Learning, Multimodal AI, Large Language Models
- Thesis:** Geometry-Preserving Prototype Learning for Robust Multimodal Fusion under Missing and Heterogeneous Modalities
- Relevant Coursework: Machine Learning, Deep Learning, Generative AI, Advanced AI Techniques, Reinforcement Learning, NLP

- Focus Areas: Software Engineering, Distributed Systems, Database Systems, Computer Networks, Cloud Computing
- Final Year Project: Secured Meter Reading System

TECHNICAL CONTRIBUTIONS & VOLUNTEER

- **Stack Overflow:** Member for nearly 6 years, with a reach exceeding 193,000 visitors; awarded 22 badges (2 Gold, 6 Silver) for peer-validated backend engineering discussions. Established reputation prior to the adoption of LLM-based tools (2023). [View Profile](#)
- **DEV Community:** Member for 3 years. 1,000+ followers; published architectural deep-dives on programming internals. dev.to/iihsan
- **Face of JKU 2025:** Selected as one of the student models representing JKU Linz in the official 2025 university image campaign. Featured in university marketing, and promotional materials. [View Gallery](#)
- **IAESTE Vienna:** Supported international student exchange initiatives and industry engagement. Co-organised Teconomy 2025, the largest tech job fair at TU Wien. [View Event](#)