Keenan Muhammad Otthmar Emzed

Devops Engineer, Solution Architect

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SUMMARY

Computer Science student at BINUS University focused on cloud computing, software infrastructure, and system design. Building practical experience in cloud technologies, programming, and application deployment, with a strong interest in DevOps and Cloud Computing. Passionate about understanding how the cloud can serve as a solution for business needs, also how applications are built, deployed, and operated in real-world environments

EDUCATION

BINUS University, *Bachelor of Computer Science* 2024 – Present | Bandung, Indonesia
GPA: 3.58/4.00

Courses: Algorithm and Programming, Data Structures, Computer Networks, Database Technology, Introduction to Cloud Computing, Introduction to Cloud Security, Software Engineering, Cloud Services, Software Development Operations in Cloud Environments

TECHNICAL SKILLS

Cloud Platform: AWS, GCP

DevOps & Tools: Docker, Linux, Git, GitHub, CI/CD, Langflow

Database: MySQL, AstraDB

Programming Languages: C, JavaScript, Python, PHP, Bash Scripting

Observability: Grafana, Prometheus

PROJECTS

Peakscore, *Remake Version of Web Based Programming Final Project* October 2026
- Built a basic CRUD Academic Potential Test application which packaged into Docker container and runs on the WSL that acts like a webserver.
- Equipping WSL with observability tools to monitor server performance and traffic.
- Designed a CI/CD pipeline to automate the application's deployment workflow using GitHub Action.
- Stack: Laravel, Docker, WSL, Cloudflare Tunnel, Grafana, Prometheus

GitHub Repository

Psychologist Appointment Booking Website, *Final Project — Cloud Services Course (WIP)* September 2026 – Present
- Designed a hybrid cloud architecture using Vercel PaaS for the frontend and Proxmox homelab for backend and database services.
- Designed the RAG pipeline powering the application's chatbot, covering document ingestion, embedding, retrieval, and LLM context generation.
- Designed and implemented CI/CD automation for the application's deployment workflow.
- Contributed to homelab infrastructure and network architecture, including service separation and cloud-to-on-premise connectivity.

Cafe FAQ Chatbot using RAG, *AI Agent Project — Hacktiv8 X IBM SkillsBuild* June 2026
- Built the RAG pipeline covering document ingestion, embedding, retrieval, and LLM context generation.
- Stack: Langflow, Google AI Studio, AstraDB

Project Documentation

Infrastructure Diagram for Company Migration, *Cloud Architecture Project — AWS re/Start* December 2025
- Designed a highly available (99.9% uptime target) AWS architecture utilizing ECS with Fargate and Service Auto Scaling to handle dynamic traffic loads efficiently.
- Designed the supporting infrastructure using RDS Multi-AZ, ECR, CloudWatch, SNS, and IAM, CI/CD workflow, container management, monitoring, alerting, and access control requirements.
- Tools: draw.io, AWS pricing calculator

Project Documentation

COURSES

AWS re/Start Program, *Orbit Future Academy* September 2025 – December 2025
AWS Core Services, Cloud Architecture, Cloud Security, Linux, Bash & Python Scripting

Google Cloud Computing Foundations, *Google Skills* February 2026 – June 2026
GCP Core Services, REST API, IaC, Cloud Observability

Belajar Dasar Google Cloud, *Dicoding* September 2025 – October 2025
Cloud Computing, GCP

LANGUAGES

English
Intermediate

Indonesia
Native