ALVIN REIHANSYAH MAKARIM

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Backend Developer with experience in building scalable REST APIs, real-time IoT backend services, and cloud-connected applications. Skilled in Express.js, Flask, PostgreSQL, Redis, and MQTT, with a strong understanding of API design, authentication, caching, and system performance. Experienced in deploying production workloads on Google Cloud and AWS, supported by hands-on CI/CD automation and containerized workflows. Google Associate Cloud Engineer certified, with a strong drive for building reliable, maintainable, and efficient backend systems.

EXPERIENCES

AWS Back-End Academy – AWS
Backend Developer Student   Apr 2025 – Dec 2025
- Developed a backend service using clean architecture with strong separation of concerns to maintain modularity and code scalability.
- Applied test-driven development (TDD) to ensure high test coverage and reliable automated testing.
- Built a CI/CD pipeline with GitHub Actions; CI utilized PostgreSQL service containers for integration testing, while CD automated deployment updates.
- Deployed the application to Amazon EC2 with Amazon RDS as the database.
- Configured Nginx as a reverse proxy and rate limiter, set up Let's Encrypt SSL, and integrated the service with a custom domain.

Teman Jalan – University of Lampung (Thesis Project)   Apr 2025 – Oct 2025
Backend Developer
- Built a real-time backend service using Express.js, MQTT, and Redis to process IoT sensor data received every 5 seconds.
- Designed and implemented APIs for calculating daily distance traveled, active usage time, and historical usage records.
- Utilized Amazon RDS (MySQL) as the main database and designed a schema optimized for daily and historical measurements.
- Implemented continuous deployment using GitHub Actions to automate updates to the backend application.
- Deployed the Node.js server on EC2 (Ubuntu), configured Nginx as a reverse proxy and rate limiter, used PM2 to keep the application running after system reboot, and enabled HTTPS using Let's Encrypt SSL.

Gita Persada Butterfly Park – Bandar Lampung, Indonesia   Jul 2024 – Aug 2024
Backend Developer Intern
- Developed a Flask-based RESTful API for a plant classification application integrated with a machine learning model.
- Configured Cloud SQL as the main database and Cloud Storage as a media repository.
- Deployed the backend application on Google Compute Engine and configured a Linux (Ubuntu) production environment.

Bangkit Academy – Google Cloud   Aug 2023 – Jan 2024
Cloud Computing Student
- Designed scalable and secure cloud infrastructures using Google Cloud Platform, focusing on high availability for production-ready systems
- Built web servers to serve RESTful APIs and host ML inference endpoints efficiently.
- Deployed entire solution on Google Cloud using Compute Engine and Cloud SQL

EDUCATION

University of Lampung – Bandar Lampung, Indonesia   Aug 2021 – Oct 2025
Bachelor of Engineer in Informatics Engineering
- GPA: 3.88

SKILLS

Soft Skills	:	Problem solving, Analytical thinking, Team collaboration, Communication, Adaptability, Fast learning, Documentation, Time management.
Technical Skills	:	JavaScript (Node.js), Express.js, Hapi, REST API, JWT Auth, Clean Architecture, TDD, Integration Testing, MQTT, PostgreSQL, MySQL, Redis, AWS (EC2, RDS, S3, IAM), GCP

(Compute Engine, Cloud SQL), GitHub Actions (CI/CD), Docker, Linux (Ubuntu), PM2, Nginx.

CERTIFICATIONS

- Expert Back-End Developer with JavaScript — Dicoding (Dec 2025)
- Google Associate Cloud Engineer — Google Cloud (Mar 2024)
- Building Cloud Architecture on AWS — Dicoding (Sep 2025)
- System Administration and IT Infrastructure Services — Coursera (Oct 2023)
- Learning the Basics of Cloud and Gen AI on AWS — Dicoding (Jun 2025)