ANDI MUHAMMAD ALIEF FAUZAN

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SUMMARY

Cloud Computing and **Backend** Development enthusiast with solid experience in **building** and **deploying scalable** edge and **cloud-native** solutions using **Google Cloud, Docker, and CI/CD** pipelines. A **Bangkit** Academy 2024 **Cloud Computing** graduate and current **Google Cloud Arcade** Facilitator, I lead **cloud integration** projects and enjoy **collaborating** in **cross-functional teams**. Passionate about **edge infrastructure, data-driven optimizations**, and **technical product design**.

EXPERIENCE

Google Cloud Arcade Facilitator   *July 2025 – Present*
- Selected **facilitator** in a national **Cloud Computing** scholarship program by Google Cloud.
- Mentored **100+ participants** in completing hands-on labs on **Google Cloud Skills Boost**, focusing on **Cloud** and **AI**.

Bangkit Academy Cloud Computing Cohort by Google, GoTo, Traveloka   *Sept 2024 – Jan 2025*
- Completed 900+ hours of training in **GCP**, **DevOps**, **Microservices**, **Cloud Architecture**, and **Project Management**
- Specialized in **Cloud-native Backend Development**, focusing on **Deployment, Integration, and CI/CD Pipelines**.
- Delivered a team capstone project involving **Cloud Deployment**, **AI & Mobile integration**, and secure **Backend** design
- Gained expertise in deploying applications using **Docker**, **Kubernetes**, and **Terraform**

EDUCATION

Bachelor of Informatics, Telkom University   *2022 - Present*
- GPA: 3.6 / 4.00
- Relevant Courework: Object-Oriented Programming**,** Data Structures, Algorithms, Software Analysis and Design

PROJECTS

ArcadeTeamCalc | [Demo](#) | [GitHub](#)   *July 2025– Present*
- Developed a **Open Source** leaderboard web app, ingesting Google Cloud Skills Boost CSVs and scraping profiles to **Calculate Real-Time** scores and milestone badges.
- Designed **RESTful APIs** with in-memory **Caching** and real-time status indicators, **Reducing redundant calls and Cutting Cloud Billing by 90%**.
- Achieved **100+ daily active users** and **350+ API requests per day** with consistent performance and reliability.
- Implemented **CI/CD** pipelines using **Google Cloud Build** to automate the building of **Docker containers** and their deployment to **Google Cloud Run**.

Grooth – Smart Air Quality Route Planner | [Demo](#) | [GitHub](#)   *July - Aug 2025*
- Architected **multi-service backend** (Node.js/Express, Docker, RESTful APIs) integrating routing and AQI services, achieving **95% route accuracy across Southeast Asia**.
- Implemented **AQI-weighted pathfinding** and polyline decoding, generating **3-tier routes (Good/Alternative/Bad)** with fallback resilience.
- Integrated **OpenRoute Service & WAQI APIs** with error handling, rate limiting, and real-time data aggregation, sustaining **<2s response times** on complex queries.

- Deployed on **Google Cloud Run** via Cloud Build pipelines, securing environment variables with **Secret Manager**.

PeduliPasal - Legal Learning Platform | [GitHub]   *Sept – Dec 2024*
- Led the development of a legal Q&A chatbot with scalable **cloud backend** and **AI integration**.
- Deployed **containerized(Docker) microservices** for query handling and model invocation.
- Improved API response latency by optimizing deployment on serverless infrastructure.

KeretaXpress – Train Ticket Booking Backend | [Demo] | [GitHub]   *May 2025*
- Developed the backend services for a mobile train ticket booking application leveraging **Supabase** and its integrated **PostgreSQL** database.
- Deployed the backend infrastructure on **Google Cloud Run**, ensuring a scalable and serverless architecture.
- Implemented CI/CD pipelines using **Google Cloud Build** to automate the building of **Docker containers** and their deployment to **Google Cloud Run**.

IoT-Based Autoclave Monitoring System | [GitHub]   *Jan– Feb 2025*
- Implemented a **Golang backend** with **MySQL database**, deployed on **Google Cloud Run** and **Cloud SQL**.
- Leveraged Docker for deployment and implemented structured logs via GCP Logging.

Building Machine Learning Applications with Google Cloud | [GitHub]   *Dec 2024*
- Created ML APIs and cloud-hosted dashboards using scalable infrastructure.
- Deployed frontend applications using **App Engine** and utilized **Cloud Storage** for storing machine learning models.
- Used **Firestore** as a database to store prediction results and managed web servers with static external IP addresses.

CERTIFICATES

Applied Machine Learning for Cloud Engineer   *Dec 2024*
- A course designed for students interested in applying machine learning using cloud computing, particularly Google Cloud. Upon completion, participants can build machine learning applications and deploy them on Google Cloud using industry standards.

Become a Google Cloud Engineer   *Nov 2024*
- A course aimed at teaching cloud computing with a focus on Google Cloud. Participants learn to master Google Cloud services and build cloud-based solutions, following industry standards.

Learn to Build Back-End Applications for Beginners with Google Cloud   *Novr 2024*
- This class is designed for individuals aiming to become Back-End Developers using Google Cloud's global competency standards. By the end, students can independently create simple RESTful APIs to support application functionalities.

DevOps Fundamentals (Belajar Dasar DevOps)   *April 2025*
- By the end of the course, students can understand how DevOps culture and practices can improve the technical and business value of companies.

Cloud Practitioner Essentials (Belajar Dasar AWS Cloud)   *April 2024*
- This course is designed for beginners who want to start their career in cloud computing by referring to AWS international competency standards.

SKILLS

Language: English, Bahasa Indonesia
Programming languages: Golang, C++, Javascript
Tools: Google Cloud, Docker, Firebase, Vertex AI, Git, Postman, IAM, OAuth2, JWT, CI/CD automation, scalability, serverless architecture, microservices orchestration
Soft Skills : Leadership, Growth Mindset, Critical Thinking, Information Sharing, Problem-solving, Teamwork, Effective Communication, Time Management, Project Management