

Muhammad Ilham

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About myself

Backend Engineer specializing in Go and event-driven architectures, with 5+ years of experience building scalable, cloud-native systems across fintech and esports industries. Proven track record in high-impact backend work, including reducing API latency by 90% and designing microservices serving 500K+ users. Currently building tournament and online qualifier platforms at PGL Esports. Experienced in cross-functional collaboration across international teams in Japan, Singapore, and Indonesia.

Work experience

Backend Developer | PGL Esports | 13 Oct 2025 - Current | Remote, Romania

- Developed and maintained tournament management platforms using Go and React, supporting online qualifiers with 32+ competing teams across multiple esports titles.
- Built end-to-end online qualifier systems covering team registration, bracket management, and match scheduling for competitive esports events.
- Streamlined deployments with GitHub Actions CI/CD pipelines and Docker, ensuring reliable and fast releases for time-sensitive esports infrastructure.
- Evaluated and proposed technical approaches for feature development and issue resolution, contributing to architectural decisions within the engineering team.

Personal Goal Pursuit | Career Break | 1 Jan 2025 - 12 Oct 2025 | Indonesia

Took a purposeful break to focus on personal milestones and professional development. During this period:

- Built and shipped a SaaS product for digital guest book management.
- Deepened expertise in cloud infrastructure (GCP), system design, and backend scalability.
- Learned frontend development and experimented with AI tools to build more interactive user experiences.

Middle Backend Engineer | AnyMind Group | 31 Mar 2023 - 31 Dec 2024 | Tokyo, Japan

- Led Go-based microservices development, refactoring legacy code to achieve 85%+ test coverage, improving system reliability and maintainability.
- Designed event-driven order synchronization across Rakuten, Shopee, and Shopify using Google Cloud Pub/Sub. Diagnosed and resolved a race condition causing out-of-order message processing, implemented FIFO ordering keys to restore data integrity for 100K+ monthly orders.
- Built a real-time shipment tracking system using cron-based courier API polling, with Circuit Breaker patterns and retry mechanisms to handle third-party API failures gracefully.
- Owned production reliability: monitored API latency spikes and Pub/Sub dead-letter queues, diagnosing and resolving backend failures in collaboration with cross-functional teams.
- Led migration of a Go-based logistics service to Kotlin/Spring Boot, improving maintainability and aligning with marketplace team standards.

Backend Engineer | Amarta | 30 Jun 2021 - 28 Feb 2023 | South Jakarta, Indonesia

- Reduced API latency by 90% (from ~2 minutes to <200ms) using advanced concurrency patterns in Go.
- Architected an event-driven portfolio calculation service using Google Cloud Pub/Sub, reducing page load times from >30s to <200ms for large lenders. Implemented batched data processing and Redis caching for high-volume financial datasets.
- Integrated Temenos T24 Core Banking with internal services via RESTful APIs, enabling seamless financial transactions for 500K+ users. Designed a replacement accounting system to decouple from legacy banking infrastructure, improving compliance and scalability.
- Built an SSO service using Keycloak (OAuth2/OIDC) and KrakenD API Gateway, implementing RBAC and centralized JWT validation across Amarta's microservices.
- Refactored a legacy Node.js (TypeScript) financial service, increasing test coverage from 40% to 75% and modularizing components for future migration.

Freelance Backend Engineer | EngageRocket | 31 Jan 2022 - 30 Sep 2022 | Singapore, Singapore

Concurrent with Amarth

- Migrated a monolithic Ruby on Rails system to Go microservices on AWS (Lambda, API Gateway), improving modularity and scalability.

Backend Engineer | KlikACC | 31 Mar 2020 - 31 May 2021 | West Jakarta , Indonesia

- Refactored legacy Laravel codebase using RESTful API best practices, improving scalability and performance.
- Built Go-based backend services with Docker, achieving 90% unit test coverage via Clean Architecture and TDD.
- Led the development of the Loan Early Repayment module, allowing the operations team to submit early repayment programs based on borrower requests. Implemented automated total payment calculations, reducing manual processing time and minimizing errors.
- Led the development of a Loan Penalty Calculation System, ensuring compliance with Otoritas Jasa Keuangan (OJK) regulations. Designed the logic to automatically calculate penalties based on financial regulations, improving accuracy and regulatory alignment.

Skills

Technical Skills

Languages: Go, Python, JavaScript, Node.js, Kotlin, PHP.
Frontend: React, Vue
Cloud: GCP (Cloud Run, Pub/Sub), AWS (Lambda, API Gateway)
Databases: PostgreSQL, MySQL, MariaDB, MongoDB
Caching: Valkey, Redis
Infrastructure: Docker, Kubernetes, Nginx, GitHub Actions, Jenkins, CI/CD
APIs: REST, GraphQL, gRPC
Architecture: Microservices, Event-Driven Architecture, Clean Architecture
Practices: TDD, Unit Testing, Design Patterns, Agile
Tools: Git, Jira, Linux

Education & Training

FullStack Javascript Immersive | Hacktiv8 Indonesia | 19 Aug 2019 - 28 Feb 2020 | South Jakarta, Indonesia
Website: <https://hacktiv8.com>

Language Skills

Mother tongue(s): **Bahasa Indonesia**

	Understanding		Speaking		Writing
	Listening	Reading	Spoken production	Spoken interaction	
English	C2	C1	C1	C1	C2