

MUHAMMAD ISHAN WARDHONO

Backend Software Engineer

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SUMMARY

Backend Software Engineer with **7 years** of experience building high-availability microservices for E-commerce, IT Consultancy, and Logistics industries. Specialist in **Golang** and **PostgreSQL**, familiar with **C#** and **JavaScript**. Experienced in handling high-throughput systems, automating workflows with **N8N**, and driving technical documentation standards. Committed to delivering clean, testable code with robust unit and integration testing.

TECHNICAL SKILLS

Languages:	Golang (5+ years), C# (1 year), JavaScript, PHP
Databases:	PostgreSQL, MySQL, CockroachDB, MongoDB, DynamoDB, Redis, Elasticsearch
Infrastructure:	Docker, Kubernetes, AWS, GCP, Github Actions, N8N
Message Queues:	RabbitMQ, NSQ, AWS SQS
Observability:	Datadog, Grafana, Scalyr
Concepts:	Microservices, REST API, gRPC, GraphQL, SOLID, DDD, Unit/Integration Testing

EXPERIENCES

Evermos, Yogyakarta, Indonesia

Nov 2023 - Present

Backend Engineer

Social commerce platform enabling resellers to sell compliant products. Engineering the core transaction systems that handle the company's revenue flow.

- Core Transaction Systems:** Manage and optimize critical high-traffic modules including Cart, Checkout, and Order Management using **Golang** and **MySQL**.
- Process Standardization:** Spearhead the creation of **Technical Requirements Documents (TRD)** and Change Management workflows, bridging the gap between Product (PRD) and Engineering to ensure safe production deployments.
- Automation & Debugging:** Developed automation workflows using **N8N** to reduce manual operational tasks and utilized **Grafana** for real-time debugging and performance monitoring.
- Code Quality:** Enforced strict unit testing standards to maintain code reliability across transaction modules.

Tech Stacks: Golang, PostgreSQL, MySQL, DynamoDB, Redis, Kubernetes, Grafana, N8N Workflow, AWS

HTC Global Services, Kuala Lumpur, Malaysia

Nov 2022 - Nov 2023

Golang Developer

IT consultant for a major Thai bank, responsible for building a centralized account integration platform.

- Account Management System:** Developed a centralized account management platform using **Golang** for a major Thai bank, enabling users to manage third-party application integrations.
- Microservices Architecture:** Built scalable services using a layered design (**BFF, Orchestrator, Core**) on **Kubernetes** to ensure separation of concerns, significantly improving code maintainability and supporting future system growth.
- Data & Observability:** Implemented **PostgreSQL** for transactional integrity and **Kafka** for immutable activity logging, while monitoring system health via **Google Log Explorer** on **GKE**.

Tech Stacks: Golang, PostgreSQL, Kubernetes, Kafka, GKE (Google Kubernetes Engine), GCP

Pingspace Robotics, Penang, Malaysia

Jun 2021 – Nov 2022

Backend Developer

Robotics and logistics company, building Warehouse Management System (WMS).

- **Warehouse Systems (WMS):** Engineered the core modules of a Warehouse Management System using **C#** and **PostgreSQL**, applying **Domain-Driven Design (DDD)** and **SOLID** principles.
- **Cloud Native Development:** Developed a serverless E-commerce platform using **TypeScript** and **AWS Lambda**, integrating **S3** for file management and **Apple Sign-In** for authentication.
- **CI/CD Implementation:** Built **GitHub Actions** pipelines to automatically run unit tests on branch pushes, ensuring build stability before deployment.
- **System Integration:** Implemented **RabbitMQ** for asynchronous logging and **Redis** for caching to improve data retrieval speeds.

Tech Stacks: C#, TypeScript, Node.js, PostgreSQL, MongoDB, Redis, RabbitMQ, Docker, Serverless-Stack, S3, Lambda Function, AWS

Tokopedia, Jakarta, Indonesia

Apr 2019 – May 2021

Software Engineer

Indonesia's leading E-commerce Unicorn. Worked on the core Order Management team handling massive scale.

- **Order Management & Unified History:** Engineered high-performance Order Management and Unified Order History **microservices** using **Golang**. Optimized the system to handle **2500+ RPS** with a fast 60ms average response time while maintaining **99.9% uptime**.
- **Data Scalability:** Designed high-availability data architectures using **CockroachDB** and **Redis Cluster** to support the Unified Order History platform, ensuring rapid data retrieval under heavy load.
- **Asynchronous Processing:** Implemented **NSQ** to buffer massive traffic spikes during high seasons, preventing system overload by queuing requests and processing them asynchronously.
- **Testing Standards:** Maintained code reliability with **>70% Unit Test coverage** and robust Integration Tests running in isolated **Docker** environments.

Tech Stacks: Golang, CockroachDB, Redis Cluster, Elasticsearch, NSQ, gRPC, GraphQL, Docker, Jenkins, Datadog, Grafana, Aliyun, GCP, AWS

Directorate General of Customs & Excise (Bea Cukai), Medan, Indonesia

Jun 2017 – Aug 2017

Programmer (Internship)

Indonesian Government Agency for Customs & Excise

- Modernized legacy record-keeping by developing a web-based archive management system using **PHP (Laravel)** and **MySQL**, improving data accessibility for the department.

Tech Stacks: PHP, Laravel, MySQL

EDUCATION

Universitas Sumatera Utara, Medan, Indonesia

2014 – 2018

Bachelor of Computer Science

- **GPA:** 3.76 / 4.00

Relevant Coursework: Data Structures, Algorithms, OOP.

CERTIFICATION

- **Machine Learning - [Coursera](#)**