Muhammad Fathir Irhas

Software Engineer

Jakarta, Bandung, and Remote

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SUMMARY

Software Engineer experienced in Backend development working mostly with Go, Rust, and few Java. Ever worked using Javascript and PHP. Experienced working in both monolith and microservice architecture with event-driven system. As a backend, I am responsible for things in server-side from public/private HTTP APIs, business logics, internal services communications, cache and persistence, handling the transactions and events, and other things related. Experienced in project/product/service creation and maintenances, including changes and refactors, also handling internal data. I write code for readibility, maintainability and testability by applying some design patterns and industry best practices. Learnable and adaptable.

EXPERIENCE

- **Lifepal**   Jakarta
  Backend Engineer   *May 2022 - Oct 2022*
  - Working on telesales team on their telesales app in Rust.   Refactor the code to migrate database tool from sqlx to seaorm, also some contribution to other team code as well.
  - **Tech Stacks** Rust, Tokio, Go, KubeMQ, Redis, Postgresql

- **Tiket.com**   Jakarta
  Backend Engineer   *November 2020 - December 2021*
  - **Team** Flight Prepurchase
  - **Tech Stacks** Go, Java, MongoDB, Redis, Kafka, RabbitMQ, etc.
  - **Project** Using Go creating internal mock server for mocking part of inter-services communications, especially partner and integration with flight supplier.
  - Working on flight search caching tools to populate search cache preemptively for promos purpose, in Go.

- **Tokopedia**   Jakarta
  Software Engineer   *July 2018 - April 2020*
  - **Team** Fintech
  - **Tech Stacks** Golang, Javascript, PostgreSQL, MySQL, Redis, NSQ, gRPC, and GQL.
  - **Saldo Tokopedia** Handling Saldo Service as journaling every transactions in Tokopedia
    * Design and implements transactions code for every products and services by storing them in saldoapp local cache refreshed every n minutes using goroutine background process.
    * Handling Saldo Service internal dashboard.
    * Migrate some of old code from Perl related to saldo service into Golang.
    * Help other teams and services to integrate into Saldo Service.
    * Saldo buyer and seller separatations, refactoring APIs to adjust saldo separations, along with its grpc and gql apis.
    * Saldo buyer and seller separatations, revamping saldo's monolith service along with its front end in Golang template with javascript(jquery) frontend
    * Refactor codes for unit tests coverage, adding testability to the code.
    * Data query for specific data fetching and changes not covered by service's api and internal dashboard.
    * and many more...
  - **Internal Dashboard** Work on internal dashboard as backoffice to business and ops teams.
  - **EGold** Create datadog monitoring dashboard for Tokopedia Emas buy and sell success, attempts rate and collect error reporting in the dashboard.
  - **Monitoring** Monitor services running through server's logs, grafana and datadog dashboard.
  - **Support** Support other teams to integrate. Support ops teams relating issues from customers.

- **Anabatic**   Serpong, Tangerang
  Software Engineer/Technical Consultant   *Nov 2016 - Jun 2018*
  - **Tech Stacks** Java, PHP(Codeigniter), MySQL, Javascript.
  - **Emporia Digital Raya** I do help some developments with Java for their web portal for export. I also helped with development of their internal project.
  - I introduce Git into the team for the ease of development. My team was used to zipping the codebase and passing it around in slack. We also used to use specific tool for comparing changes, and checking the diffs manually line by line before merging changes from other devs. This way of development was cumbersome and prone to errors because of manual versioning and manual changes merging. Git simplified this along with deployments.
  - My team used to deploying to our Windows Server manually through remote desktop, but with Git, I made change so that deployment done through git without manual merge and without manual upload. So the version in Windows Server maintain to correct and stable version for development.

EDUCATION

- **Telkom University**   Bandung, Indonesia
  Bachelor Degree in Informatics Engineering (S.Kom)   *2012 – 2016*

SKILLS

- Backend Development using Golang, Rust and few Java

- Databases with Postgresql, Mysql, SQLite, and Mongodb

- Distributed in-memory cache with Redis

- API with HTTP, gRPC, GraphQL, Message Queue.

- Maintaining and Debugging.

- Unit Testing and Integration Testing.

- Benchmarking and Monitoring.

- ...and others related.

LINKS

- More detail on https://mfirhas.com/about

- Linkedin: https://linkedin.com/in/mfathirirhas

- Github: https://github.com/mfirhas