

# Muhammad Insan Kamil

Banjarnegara, Jawa Tengah

[insankamil002@gmail.com](mailto:insankamil002@gmail.com) |

[insankamil.uad@gmail.com](mailto:insankamil.uad@gmail.com)

+62 895 1244 7015

**Backend Engineer | Full Stack Engineer**

## Indonesia

Sebagai Programmer Backend Engineer, saya memiliki pengalaman kerja 5 tahun sebagai Backend Engineer dengan berbagai bahasa pemrograman. Terlepas dari 5 tahun pengalaman kerja Saya. Saya memulai karir sebagai programmer frontend hingga fullstack secara profesional semenjak tahun 2019 dan memulai mengerjakan projek semenjak tahun 2017.

Untuk pengalaman full stack, Saya mengerjakan aplikasi untuk frontend biasanya menggunakan framework javascript, seperti :

- VueJS / Nuxt JS
- ReactJS / Next JS
- Svelte

Saya juga bisa melakukan integrasi aplikasi frontend dengan backend

Saya biasa menggunakan Javascript (NodeJS), Golang, PHP, Python dan Java dalam pekerjaan. Saya juga terbiasa bekerja secara remote (menggunakan Slack) sehingga Saya mengerti tanggung jawab, cara bekerja dan integritas dalam bekerja remote, sehingga Saya dapat menyesuaikan dengan cepat pada perusahaan baru.

## English

As a backend programmer, I have 5 years of work experience as a backend engineer with various programming languages. Apart from 5 years of work, I started my career as a frontend to full stack professional since 2019 and started working on side projects from 2017.

For full stack experience, I work on applications for the frontend usually using a JavaScript framework, such as:

- VueJS / Nuxt JS
- ReactJS / Next JS
- Svelte

I can also do frontend application integration

I usually use Javascript (NodeJS), Golang, PHP, Python and Java in my work. I am also used to working remotely (using Slack) so I understand responsibility, how to work and integrity in working remotely, so I can adjust quickly to.

## Pengalaman Kerja

---

### Periksa.ID - Jakarta

Senior Backend Engineer

April 2024 - Now

#### Medical Service

Tech Stack : Golang (Gin), MySQL

- Create and maintain backend applications using Golang
- Minimize resource usage to third parties due to the rate limiter
- Fixed bugs in legacy applications

Senior Backend Engineer

April 2024 - Now

#### Medical Record Patient Service

Tech Stack : Golang (Gin), MySQL

- Create and maintain backend applications using Golang
- Fixed bugs in legacy applications
- Migrating node js project to golang

Senior Backend Engineer

April 2024 - Now

#### Human Resource Service

Tech Stack : Golang (Gin), MySQL

- Create and maintain backend applications using Golang
- Fixed bugs in legacy applications
- Migrating node js project to golang

Senior Backend Engineer

April 2024 - Now

#### Reporting Management Service

Tech Stack : Golang (Gin), MySQL

- Create and maintain backend applications using Golang
- Fixed bugs in legacy applications
- Migrating node js project to golang

Senior Backend Engineer

July 2024 - Now

#### AI Service - ChatBot and Summary Service

Tech Stack : Golang (Gin), MongoDB, Gemini AI API, Open AI API

- Create and maintain backend applications using Golang
- Integrating into the Gemini API and OpenAI API for summary and analytics purpose
- Create a service using websocket for chatbot features
- Using RAG to increase AI's knowledge base for business needs
- Carrying out fine tuning to improve the response capabilities expected by the company

Senior Backend Engineer

July 2024 - Now

### **WhatsApp Service**

Tech Stack : Golang (Gin), MySQL, Gemini AI API

- Create and maintain backend applications using Golang
  - Integrating into AI Service for automation chatbot response
  - Whatsapp Bot chat for consultation and recommendation for medical purpose only
- 

### **Hudoro Solusi Digital - Jakarta**

Senior Backend Engineer

February 2024 - August 2024

### **TUV NORD CENTRAL**

Tech Stack : NodeJS, MySQL, Pub/Sub

- Create and maintain backend applications using Node JS
- Create an integrated system using Google Pub/Sub
- Integrate into various applications

Senior Backend Engineer

February 2024 - August 2024

### **BUDGETING APP - TUV NORD**

Tech Stack : NodeJS, MySQL, Pub/Sub

- Create and maintain backend applications using Node JS
  - Create an integrated system using Google Pub/Sub
  - Integrate into various applications
- 

### **Skyshi - Yogyakarta**

Full Stack Engineer

March 2024 - June 2024

### **AcuityQuick (Survey Management Application)**

Tech Stack : React JS, TailwindCSS, NodeJS, MongoDB

- Create and maintain backend applications using Node JS
- Perform slicing with the latest UI using tailwind css
- Fixed bugs in legacy applications

Full Stack Engineer

February 2024 - June 2024

### **Moladin (Mofi Engine)**

Tech Stack : React JS, TailwindCSS, NodeJS, MongoDB

- Integrate with backend application
- Create applications with a microfrontend structure
- Improve application performance by caching databases to reduce the load for related expedition API hits

---

## **Komerce - Purbalingga**

Senior Backend Engineer

November 2023 - Februari 2024

### **Komplace (Omnichannel)**

Tech Stack : Nest JS, RabbitMQ, MongoDB, MySQL, Firebase, Next JS

- Create and maintain backend applications using Nest JS
- Minimize resource usage to third parties due to the rate limiter
- Fixed bugs in legacy applications
- integration into various marketplaces and adapting to the latest APIs
- Added a soft delete mechanism to reduce the risk of data loss when a user accidentally deletes data from a store

Senior Backend Engineer

November 2023 - Februari 2024

### **KOMSHIP TARIFF**

Tech Stack : Golang (Gin), RabbitMQ, Asyncmon, GRPC, Microservices, Elastic Search, MySQL

- Integrate with various expedition services
- Refactored to add the ability to run as a microservice
- Improve application performance by caching databases to reduce the load for related expedition API hits
- Upload bulk data to elastic search for shipping fee

Senior Backend Engineer

November 2023 - Februari 2024

### **Logger & Tracer Package for Internal Usage**

Tech Stack : Golang (Gin), Microservices, Open Telemetry

- Added integration capabilities to kubernetes using open telemetry
- Using zap log for logger
- Using otel-tracer for tracer
- Add prometheus support for metrics analytics

Senior Backend Engineer

Desember 2023 - Februari 2024

### **Komship Golang**

Tech Stack : Golang (Gin), RabbitMQ, Redis, Asyncmon, Microservices, Elastic Search, MySQL, MongoDB, GRPC

- Implement microservices using RabbitMQ as message broker
- Implement clean architecture
- GRPC for transport protocol
- Add Async for internal worker service to reduce load and time execution for worker
- Create new feature for decrease shipping error

Senior Backend Engineer

Februari 2024

### **Notification Service**

Tech Stack : Golang (Gin), RabbitMQ, Redis, Asyncmon, Microservices, MySQL, MongoDB, GRPC

- Implement microservices using RabbitMQ as message broker
- Implement clean architecture
- GRPC for transport protocol
- Send notification to slack channel
- Add worker for broadcast support

Senior Backend Engineer

Februari 2024

#### **Auth Service**

Tech Stack : Golang (Gin), RabbitMQ, Microservices, MySQL, MongoDB, GRPC

- Fraud Detection for user registration
  - Send payload to auth service using GRPC
- 

### **Memofy Dev Studio - Yogyakarta**

Full Stack Engineer

September 2020 - November 2020

#### **Rekmed (Rekam Medis) [Medical records]**

Tech Stack : Vue JS, Express JS, Codeigniter 4, MySQL

- Create an API using Golang as content management
- Increase speed in carrying out the registration process at the clinic
- Create applications using NodeJS (Express) for broadcast and mail service
- So that patients can get payment information and information about the clinic

Full Stack Engineer & Tech Lead

January 2021 - November 2022

#### **MEMODUL (Aplikasi pembuatan modul digital) [digital book module creation application]**

Tech Stack : React JS, Express JS, Golang (Gin), Laravel, MySQL, MongoDB

- Create a Microservice application as a Service for managing materials
- Application with NodeJS for content management in CMS
- Service app with golang and node js for consumption by mobile applications
- Application to create modules dynamically and templates can be changed according to user wishes

Backend Engineer & Tech Lead

December 2022 - March 2023

#### **SAHABATMU (Aplikasi untuk bimbingan konseling online) [Application for online counseling guidance]**

Tech Stack : React JS, Express JS, Nest JS, Golang (Fiber), MySQL, MongoDB

- Create a backend monolith application with node js
- Create a chat service with web sockets to conduct online consultations using text
- Create a service for video call service using webRTC

Full Stack Engineer

March 2023 - September 2023

#### **Media and Workshops management system in Karangkajen village**

Tech Stack : React JS, Express JS, MySQL

- Developing applications for guest users with ReactJS
- Create CMS applications for content and workshop management
- System integration with RESTful API

---

## **PT. Informasi Teknologi Indonesia (Jatis Mobile)**

Full Stack Engineer

April 2022 - September 2022

### **Integration Bakuul System to chat commerce**

Tech Stack : React JS, Golang (gin), Redis, PostgreSQL

- Development RESTful API using Golang (Gin)
- Integrating the system owned by Bakuul with Jatis Mobile's chat service, so that Bakuul customers can make purchases from chat on the WhatsApp application

Backend Engineer

September 2022 - March 2023

### **Chat Commerce (e commerce using chat based)**

Tech Stack : Golang (gin, echo), Redis, MongoDB, PostgreSQL

- Develop CMS service using Golang (Gin)
- Improve the customer service module in managing buyers, so that they can control the product journey from courier delivery to receipt into the hands of the buyer
- Create a module to print bulk reports at once, so that the finance team can see the income received by Jatis Mobile
- Create a referral system when purchasing products, thereby increasing sales and expanding product share
- Develop Mobile Catalog service using Golang (Gin). managed to increase speed in searching for the nearest shop within a certain radius. searches increased by 2 times.
- Fix issues in calculating profits and costs borne by the buyer, thus reducing losses that have occurred previously
- Improve search performance in selecting couriers, and change the business scheme in determining couriers, so that jatis saves balance and tokens when users determine couriers
- Develop Merchant service using Golang (Echo), create a partner system, so you can register new merchants and also carry out referral management. makes it easier for merchants to carry out product management
- Integrate to Biteship (courier service), increasing expedition capabilities with various types of shipping
- Integrate to DOKU Payment Service, so we can make payments using OVO, Shopee Pay and Virtual Account

Backend Engineer

March 2023 - May 2023

### **Integration Lotte Service to Jatis Chat Commerce Service (Jessie Application)**

Tech Stack : Golang (Gin), Microservices, PostgreSQL, Redis, MongoDB

- Development RESTful API using Golang (Gin)
- Integrate with the DANA system, for purchases using OVO, Shopee Pay and Virtual Account. Thus increasing the ability of payment options and increasing product purchase rates
- Improve the delivery system in the Jessie system, so as to improve the quality of courier searches. This improvement improves the quality of goods delivery according to the goods to be sent.
- Create microservices for Jessie's external systems, so that clients from Jessie can integrate their systems with the API that has been created

Full Stack Engineer

May 2023 - August 2023

### **CRM for Electrolux**

Tech Stack : Golang (Echo), Next JS, RabbitMQ, Microservices, PostgreSQL, Redis

- Develop RESTful API using Golang (Echo)
- Create a service for CRM, which is capable of importing data in bulk, so that users only need to input customer data at one time
- Can create campaigns to broadcast to customers from Electrolux with Jatis Chat Commerce Service, so that Electrolux can reach all customers in the campaign that has been created
- The system created is also capable of making gift claims, so reports for gift claims can also be made on this CRM

- service
- Develop microservice app for import excel file using Golang (Echo)
- 

### **PT ID Metafora - Yogyakarta**

Full Stack

January 2020 - March 2020

Tech Stack : Vue JS, React JS, Codeigniter 4, Express JS, MySQL, MongoDB

- Create a RESTful api using codeigniter 4
  - Developing applications for crowdfunding systems
  - Developing applications for online store catalogs
  - Create a mobile (hybrid) application using Vue JS for shopping with suppliers
  - Create an application for livestock control using React JS
- 

### **PT. Santara Daya Inspiratama - Yogyakarta**

Frontend Engineer

January 2019 - June 2019

#### **Santara.co.id - Dashboard**

Tech Stack : Angular JS, Vue JS

- Developing systems using AngularJS
- Fix issue in with the dividend feature in dividing sales profits from clients to users
- Create features to improve application performance with Vue JS

#### **Photostory - Dashboard**

Tech Stack : Vue JS, Vuetify

- Developing systems using VueJS
  - re-write from the existing system (AngularJS) to VueJS
  - improve the performance of the photo album printing business with a seamless system
- 

### **Pendidikan**

#### **S1 di bidang Informatika**

Universitas Ahmad Dahlan - Yogyakarta

#### **SMA di bidang IPA**

Pondok Pesantren Islamic Center Binbaz - Yogyakarta

### **Keterampilan**

- 
- Software Development (7 tahun)
  - Golang (3 tahun)
  - Node JS (5 tahun)
  - Python (5 tahun)
  - PHP (7 tahun)
  - Unit Test (3 tahun)

- Clean Code (3 tahun)
- Microservices (3 tahun)
- Agile (2 tahun)
- Project Management (3 tahun)
- HTML5 (7 tahun)
- RESTful API (5 tahun)
- ReactJS (3 tahun)
- VueJS (5 tahun)
- ElasticSearch (1+ tahun)
- Redis (3 tahun)
- GRPC (2 tahun)
- MongoDB (4 tahun)
- MySQL (7 tahun)
- PostgreSQL (4 tahun)
- Laravel (4 tahun)

## Bahasa

---

- Indonesia - Penutur asli / Native Speaker
- Inggris - Menengah / Intermediate

## Portofolio

---

- <https://crm.coster.id/>
- <https://cms.berandaloko.com/#/login?redirect=%2F>
- <https://komplace.id>
- <https://komship.id>
- [Sekolah Tahfidzul Al Kautsar \(stgalkautsar.com\)](http://Sekolah.Tahfidzul.Al.Kautsar(stgalkautsar.com))