

# Rafli Zainuddin

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Seeks WFH flexibility, Can travel by public transport only

## Backend API Developer

Website: [raflie.cc](http://raflie.cc)

### Skillset Summary

- Databases: MySQL/any RDBMS - operational data, user data, db for GQL
- Databases: MongoDB - read-only data, content browsing, Mongo Cloud Atlas
- Cache: Redis - queue, session locking, partial data caching
- Utility: ElasticSearch - find similar keywords, search keyword autocompleting
- Utility: Docker - build optimisation with multi-stage building
- Backend: Golang with Gin, NodeJS with NestJS, expressJS, TypeORM, Prisma, bcrypt, JWT
- Other integrations: Bugsnag - customised error reporting, Go panic handling
- Other integrations: Kafka - internal data transfer, debugging by data replaying
- Project Developments: Agile, Sonarqube code checker, Locust stress testing, Github Actions

### Working Experiences

#### **Backend Developer** | Newsway Sdn Bhd, KL | June 2022 - Now

- **Pioneered Projects:** User-generated Content (GQL), Comment Service, Feed Service
- Tech stack: MySQL, MongoDB, Redis, NodeJS, Golang, Kafka, Bugsnag, Docker, GCP Kube
- Introduced **testing framework** that describes the application business logic and enable TDD
- **Event-driven** application design to enable modular business rule on each endpoint
- Route pattern matching to transform legacy endpoints response for **backward compatibility** feature
- Applying **graceful shutdown** on Golang using channels and event-emitters

#### **Adhoc Tech Lead** | Everise DX Sdn Bhd, KL | June 2021 – April 2022

- **Pioneered Projects:** Chatbot integration in TnG e-wallet, Whatsapp Chatbot
- Tech stack: MySQL, Redis, ElasticSearch, NodeJS, Whatsapp Sinch, Docker, AWS Fargate
- Designing technical requirements based on the use-cases in the business requirements
- Customisation of chatbot **accept multiple channels** (web/whatsapp/telegram) using the same NLU engine
- Secure **one-way hashing** using UUIDv5 on mobile phone

#### **Full Stack Developer** | Everise DX Sdn Bhd, KL | Dec 2020 – June 2021

- Managing conversational bot using **TypeScript**, JSON column in MySQL database for metadata
- Utilising **Redis** and **Elasticsearch** for storing JWTs, hot data, and historical data
- Deploying bot instances using **AWS Fargate** and monitoring instances with **AWS CloudWatch**
- Maintaining dashboard in **React** to support channel-based bot answer
- Using basic keyword entity extraction: effective for detecting business flow to respond

## **Data Engineering Intern** | MoneyLion Malaysia Sdn Bhd, KL | March – June 2019

- Tech stack: Redshift, HDFS, Python, Apache Spark, Airflow
- Programming ETL routine from **MongoDB** and other **SQL DBs** to **RedShift** using **Airflow** and **cron**
- Using Spark in **Java** and **spark-submit** to launch jobs and to extract 95% of GB-sized text files
- Configuring **spark** and **hadoop** in \*nix system
- Designing web layout for internal program using **HTML + CSS**
- Using **Agile** Project Management Framework to complete 5 tickets every 2 weeks

## **Recent Projects**

[API] Feb, 2023 ([github.com/ye-yu/ts-sample-express/](https://github.com/ye-yu/ts-sample-express/))

Sample ExpressJS – Exploring latest NodeJS feature for Web Server

- Scope: Web API
- Exploring async singleton instantiation with node project type module
- Route registering using decorators and file scanning
- TypeORM column definition utility by reading decorator metadata

[JavaScript] July, 2022 ([github.com/ye-yu/ts-type-my-env](https://github.com/ye-yu/ts-type-my-env))

NodeJS: Type My ENV – Auto-document your .env file

- Scope: Software development, TypeScript
- Using line parsing and pattern matching to extract environment variable document
- Generating type declaration for environment variables in process.env.\*

## **Recent Education**

Bachelor of Computer Science (Hons) Majoring **Data Science** | Multimedia University, Malaysia

CGPA 3.88 (June, 2017 – June, 2020) – Scholar of Yayasan Telekom Malaysia

## **Communication**

Full Proficiency: **English** (MUET Score: Band 5), Bahasa Malaysia

Casual Speaking: Mandarin **Chinese**