

EMMANUEL JONATHAN

GOLANG SOFTWARE ENGINEER

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SUMMARY & OBJECTIVES

A Backend engineer with 3+ years experience in Golang, and multiple Go frameworks for building efficient, scalable and data-driven solutions. Experienced in microservices and monolithic architectures with expertise in relational and non-relational databases. Known for solving complex business challenges and optimizing backend systems. Seeking to contribute to a team focused on high-impact, quality products.

SKILLS

Back-End: Golang, Gin, Gorilla, go-fiber, Go-chi, echo, REST, RPC, gRPC

Languages: Go, C, C++, SQL, Javascript, Java

Front-End: JavaScript, HTML5, CSS3

Databases: Postgresql, MySql, MongoDB, Cassandra, Redis

Tools: Git, Github, GitHub Actions, AWS, Postman, GCP, Docker, Kubernetes, Heroku, RabbitMQ, Make, GORM

Methods: TDD, Agile Development, OOP, Microservices architecture

Professional: Arithmetic, Teamwork, Agility, Emotional Intelligence, English proficiency

WORK EXPERIENCE

TRACTION APPS

Backend Engineer - Golang

Remote

July 2023 - October 2024

- Designed and Implemented API's to serve over 500,000 active users.
- Collaborated effectively in a strong and structured agile team, sticking strongly to agile scrum principles.
- Analyzed the business logic and architected over 30 features to implement user stories.
- Engineered internal security enhancements that safeguarded company assets, yielding savings in the thousands.
- **Skills:** Golang, Distributed systems, MongoDB, REST, RabbitMQ.

TRIGAN DAO

Backend Engineer - Golang

Remote

June 2022 – July 2023

- Built and Integrated complex projects using external APIs, relational databases (Postgres), and NoSQL databases (Cassandra) to ensure seamless data management and scalability.
- Optimized high-traffic APIs that support over 100,000 users in a smart city environment, ensuring efficiency and reliability.
- Documented 20+ REST API endpoints with Swagger and OpenAPI, establishing clear, accessible API references that improved development speed and collaboration.
- Collaborated closely with a cross-functional team of 3 using Git and GitHub, contributing to a streamlined, high-performing development workflow.

HNG

Backend Engineer - Golang

Remote

October 2022 – December 2022

- Collaborated effectively with product managers, DevOps, and frontend developers in a fast-paced environment to deliver a product MVP within two months, achieving a rapid, goal-oriented launch.
- Engineered the backend for the MVP using a powerful tech stack—Gin, Git, MongoDB, and Postman—to create a robust and scalable foundation.
- Integrated advanced APIs from GCP and AWS for image categorization, leveraging SDKs to run asynchronous batch tasks, efficiently processing up to 100 images simultaneously.

UPWORK

Freelance Golang Developer and Technical Writer

- Architected and developed a REST API featuring over 20 functional endpoints, leveraging Cassandra, Postgres, and Golang web framework, Echo, to deliver a high-performance, scalable backend solution.
- Authored 10 in-depth Go articles, breaking down complex topics like data types, structures, concurrency, interfaces, pointers, and type conversion, providing clear and practical insights to support Go developers.
- Engaged directly with clients to accurately understand their needs and deliver effective, feasible solutions within a week, enhancing client satisfaction and project outcomes.

HIGHLIGHTED PROJECTS

Golang Backend Engineer

Photo Blog – An easy-to-deploy photo blog where a user can have fun by sharing their personality through pictures.

- **Built with:** Go, HTML, CSS, Javascript, AWS RDS, Docker, Postgresql
- **Github URL:** <https://github.com/emmrys-jay/photo-blog>

Brief – A REST API for a url shortener written with detailed documentation in swagger and proper API testing.

- **Built with:** Go, go-chi, Postgresql, Gorm, Docker, swagger, Postman
- **Github URL:** <https://github.com/emmrys-jay/brief>

Bifrost - Bifrost is a Golang library. It is a rainbow bridge for shipping files to any cloud storage service with the same function calls. I contributed to building Bifrost.

- **Built with:** Go, AWS S3
- **Github URL:** <https://github.com/opensauceryafrica/bifrost>

Medbuddy - Medbuddy is a project in which I built the backend from scratch during a 7-day hackathon. It is an improved digital solution for medical adherence.

- **Built with:** Go, Gin-gonic, MongoDB, cron jobs, email integration, yaml
- **Github URL:** <https://github.com/medbuddy-hq/medbuddy-backend>
- **Live Application URL:** <https://medbuddy-mvp.vercel.app/>

EDUCATION

ALTSCHOOL AFRICA

April 2022 – March 2023

Backend Engineering (Go)

- Spent 700+ hours mastering algorithms, data structures, Go programming paradigms, web development, docker, technical writing and web services.
- Improved my skills by solving scenarios of real-world problems using OOP and working in teams to solve problems involving backend concepts.
- Mastered the process of contributing to open source projects Git and Github.

Federal University of Technology, Akure (FUTA)

January 2019 – September 2024

Degree, Computer Engineering

- First class graduate with a final CGPA of 4.70/5.0
- Developed projects in C, C++, and Python, and built mobile applications using Object-Oriented Programming in Java.
- Built a mobile application to solve food security challenges in two days using Java.
- Best Performing Student (2020/2021 Academic Year)