

MUHAMMED SHAHAL MV

GOLANG DEVELOPER

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Profile Summary

Dedicated Golang backend developer with experience in building scalable and high-performance web applications. Proficient in designing and optimizing RESTful APIs, database management with PostgreSQL, and implementing microservices architecture. Strong understanding of system design principles, ensuring efficient and scalable solutions. Passionate about continuous learning, improving system efficiency, and embracing new challenges in backend development.

Skills

Languages: Golang, C, C++, PostgreSQL, MySQL, MongoDB

Microservices:

Docker, Kubernetes, Apache Kafka, gRPC, WebSocket, WebRTC

System Design & Scalability:

Load Balancing, Database Sharding & Replication

DevOps & Deployment:

CI/CD Pipelines, Containerization (Docker), Orchestration (Kubernetes)

Libraries & Frameworks:

Gin, Gorilla Mux

Tools & Platforms:

Git, GitHub Actions, Postman, AWS

Security & Authentication:

Concepts:

Microservices Architecture, Monolithic Architecture, API Design & Development, Clean Architecture, MVC Architecture, Unit Testing, Integration Testing

Projects

PetPlate - Online Pet Store | Golang, Gin, PostgreSQL, Docker, Kubernetes ✍

- **Architected** a high-traffic e-commerce backend, efficiently handling **10,000+ concurrent users**.
- **Enhanced** user authentication, product catalog, and order management, **reducing checkout failures by 35%**.
- **Deployed and containerized** the system using **Docker & Kubernetes**, ensuring **99.9% uptime**.
- **Optimized** PostgreSQL queries, **reducing database response times by 40%**.

AI Receptionist - Smart Front Office Management | Python, Django, MySQL, Facial Recognition

Group Research Project | Riss Technologies

- **Developed** a facial recognition-based front desk system, automating visitor verification and enhancing security.
- **Integrated** AI-driven facial recognition, **reducing manual check-ins by 60%**.
- **Structured** a scalable MySQL database, ensuring efficient data retrieval and guest tracking

Mini Project

1. Microservices-Based E-Commerce System | Golang, gRPC, Kafka, PostgreSQL, Redis, Docker

- **Designed and structured** user, product, cart, and order services as **independent microservices**, ensuring high availability.
- **Implemented** gRPC-based inter-service communication, **reducing API latency by 30%**.
- **Strengthened** security by **applying** JWT authentication, API gateway controls, and rate limiting

2. Email Scheduler Microservice | Golang, Go-Cron, SMTP, Docker, Kubernetes

- Built an email scheduling microservice for automated email notifications.
- Used Go-Cron for job scheduling and SMTP for email delivery.
- Ensured scalability with containerized deployment (Docker, Kubernetes).
- Integrated error handling and logging for better monitoring.

3. Video Streaming Service with WebRTC | Golang, WebRTC, gRPC, Docker

- Implemented real-time video streaming using WebRTC.
- Developed a signaling server in Golang for managing peer-to-peer connections.
- Optimized bandwidth usage and adaptive streaming for better video quality.
- Used Docker for containerization and scaling.

4. User Management Testing | Golang, GoMock, Testing Package, GitHub Actions

- **Built and automated a comprehensive unit and integration testing framework**, increasing test coverage to 85%.
- **Simulated** database interactions using **GoMock**, **cutting test execution time by 50%**.
- **Integrated** CI/CD pipelines via **GitHub Actions**, ensuring smooth and error-free deployments.

Experience

Golang Backend Development Bootcamp | Brototype | July 2024

- **Engineered** scalable backend applications using **Golang, PostgreSQL, and microservices**, improving performance and reliability.
- **Designed and deployed** authentication systems, database management solutions, and RESTful APIs, **optimizing response time by 40%**.
- **Applied** JWT-based authentication, caching strategies, and middleware-based authorization, **enhancing system security and efficiency**

Education

10/2021 – 04/2024	Bachelor of Computer Application
KANNUR, INDIA	<i>JAMIA HAMDARD KANNUR</i>