ABDUL RAHIM O M

Web Developer, Golang

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PROFILE

Self-taught developer specializing in **Golang**, with **hands-on experience in building web applications** and complemented by **experience as a backend lead in a startup**. Skilled in building scalable, high-performance applications, with a strong focus on innovation, problem-solving, and continuous learning.

TECHNICAL SKILLS

- **Frameworks / libraries:** Gin, Fiber, Echo, GORM
- **Architectures:** Microservices, Clean Architecture, MVC
- **Database, caching:** PostgreSQL, MongoDB, Redis
- **Deployment:** CI/CD, Nginx, TLS/SSL, Docker, Kubernetes
- **Cloud Platforms:** AWS (S3, EC2, Lambda), GCP (GKE, cloudinary)
- **Testing & monitoring:** Unit and integration testing, Logrus, Prometheus, Graphana(basics)
- **Other Protocols:** gRPC, WebSocket, WebRTC, TCP, UDP
- **Message brokers:** Apache Kafka, RabbitMQ
- SOLID principles, Agile methodology
- DSA, concurrency

EXPERIENCE

Lead Software Engineer – School Application Project

Infuzio (2024 Sept to 2025 February)

Developed and led backend architecture for a multi-tenant school semi-ERP application in a startup environment.

- Designed and implemented a **SaaS-based multitenant architecture**, ensuring data isolation and enabling school-specific customization of syllabi and configurations.
- Led architectural decisions, ensured code quality, and provided technical guidance to the development team.
- Developed and optimized APIs for student and staff-facing applications.
- **Engineered for low operational costs** by optimizing database queries, media file handling, and incorporating caching strategies.
- Implemented **role-based access control (RBAC)** to manage staff permissions based on authority and technical skills.
- Worked in an Agile environment, ensuring iterative development and continuous improvement.
- Focus on simplicity for users while accommodating more features.

PROJECTS

Orderly - Order Management System   📄 Doc   ⚙ GitHub

Designed and developed a scalable **order management system** using Go with dynamic price adjustmens based on market.

- Implemented using the **Fiber** framework, with **PostgreSQL** and **Gorm**, following clean architecture principles.
- Features include product, order, and stock management, along with automated **demand- and supply-based price adjustments** (via Cron jobs) and manual control.
- Supports a **two-tier admin system**, where super-admins have full managerial control, while sub-admins have specialized privileges based on assigned roles.
- Implemented **JWT authentication**, **role-based access control**, and **token revocation** upon account suspension.
- Integrated **Twilio API** for account verification.
- Response code-based responses to identify response types, with detailed Postman documentation.

MyShoe - E-commerce Platform   📄 Doc   ⚙ GitHub

Developed a comprehensive REST API mocking requirements for an already existing e-commerce shoe store, using the Gin framework and adhering to Clean Architecture principles. Project done as a part of learning.

- Developed using the **Gin framework**, with **PostgreSQL** and **Gorm**, following clean architecture principles
- Features include **inventory management**, product classifications (categories, brands, models, variants, etc), dashboards, **sales reports, invoice generation**, coupons, carts, and wishlists, with multi-layer user roles (admin, seller, customer).
- Integrated **JWT authentication**, **Razorpay** for payments, **Twilio API** for account verification and used **AWS S3** for image uploads.
- Deployed on **AWS EC2** with CI/CD pipelines using **GitHub Actions**.
- Added configurable delivery settings via external config files and implemented **unit testing**.

Gov-Service App – Grievance Redressal Platform 📄 Doc ⭕ GitHub

Platform for streamlining grievance redressal in public services and utilities. It ensures effective citizen-authority communication with proper acknowledgements and simplifies managing office hierarchies and roles for efficient grievance handling.

- Built using a **microservice architecture** with separate API gateways for user and admin interfaces to ensure enhanced security.
- Used **assymmetric JWT**. Integrated **chat** and **video call facilities** powered by WebRTC and **Twilio API** for account verification.
- Technologies: **WebSockets**, **gRPC**, **Fiber**, **PostgreSQL**, **Kafka**, **Docker**, **Kubernetes**, **Rate limitting**, **Logrus**, **Prometheus**, **PProf**, Graphana - basic implementation.
- Deployed on **GCP GKE** with a scalable Kubernetes cluster.
- Currently implemented for the electricity department

MINI-PROJECTS

Sessions report maker - Native application using Go ⭕ GitHub

Developed in Golang to explore native app development with Go. This tool manages session summaries, group management, and attendance of group activities.

Telegram Weather Bot ⭕ GitHub

A Telegram bot that provides real-time weather information. Users can share their location or set default coordinates to get instant weather updates, including temperature, humidity, pressure, and wind speed.

URL shortener ⭕ GitHub

Generates shortened URLs that redirect to the original links when accessed.

Password Generator API, Unique-ID Generator API ⭕ GitHub

APIs that other websites can use for generating random passwords and unique IDs.

MINOR ACHIEVEMENTS

- **Leetcode** – July Badge & 50-days badge.
- **Mathematics Quiz**: Achieved 4th place in the state level mathematics quiz organized by the Kerala Public Education Department.

EDUCATION

Web Development, Self-Learning Bootcamp, Brototype

Ernakulam, India   09/2023-01/2025

Self-taught in web development using Go, with regular reviews and feedback from experienced industry professionals. Gained hands-on experience in SQL (PostgreSQL), NoSQL (MongoDB), Clean Architecture, Microservices, and best practices in logging, testing, and profiling. Developed expertise in containerization with Docker and Kubernetes, CI/CD pipelines, and unit testing.

Bachelor of Technology (B.Tech) in Naval Architecture

CUSAT, Cochin   07/2015 – 04/2019

Studied Ship Building, Stability, Hydrodynamics, Mechanics, Graphics, and Computer Science.