

Ahmad Mostafa

Software Engineer

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SUMMARY

Backend Engineer with expertise in building scalable systems and microservices architecture. Experienced in developing high-performance applications using Go and Node.js, with a strong focus on API design and database optimization. Demonstrated success in both team environments and independent projects.

PROFESSIONAL EXPERIENCE

Backend Engineer at TechBridge Lab

Aug 2024 – Present

Responsible for developing and maintaining multiple high-impact projects:

Feedbq.io – (Enterprise Feedback Management Platform)

- Spearheaded complete backend redesign, successfully migrating from MongoDB to PostgreSQL
- Engineered integration systems for 6+ major platforms (Discord, Slack, Jira, ClickUp, Asana, Linear)
- Implemented secure subscription billing system using Stripe with webhooks and customer portal
- Optimized system performance through Redis caching, reducing response time by 60%
- Implemented content moderation system with automatic obscenity detection and filtering for user-generated content
- Established comprehensive API documentation standards using Swagger and Tsoa
- Implemented robust error handling and monitoring systems

DubbingHub – (AI-Powered Video Dubbing Platform)

- Built end-to-end video processing pipeline with Go microservices and AWS SQS, enabling automated transcription, translation, dubbing, and YouTube publishing
- Implemented comprehensive workflow management system with advanced CRUD operations
- Implemented token-based billing system with Stripe integration and usage tracking

Independent Freelance Engineer

Oct 2023 – Present

Managing end-to-end development of custom software solutions:

Leopard E-commerce Platform

- Built comprehensive e-commerce solution with advanced admin capabilities
- Implemented multi-warehouse inventory system
- Integrated Paymob payment gateway supporting multiple payment methods
- Developed dynamic pricing engine and automated order processing
- Created analytics dashboard with customizable reporting
- Implemented vendor management and role-based access control

Parent-Connect Social Platform

- Developed intelligent parent matching algorithm based on children's schools, activities and location
- Implemented real-time chat system with push notifications
- Built secure authentication system with OAuth integration
- Designed location-based services for local community building

Rakad On-Demand Car Wash Platform

- Developed backend APIs for customer, worker, and admin dashboard applications
- Implemented real-time location-based service matching and order tracking system
- Integrated multiple payment gateways (Mada, Tabby, Tamara) with automated commission calculations
- Built admin dashboard with analytics, user management, and service configuration capabilities
- Built multi-language support (Arabic/English)
- Implemented service rating system with rewards wheel for cashback

- Designed comprehensive worker management system with earnings tracking

FEATURED PROJECT

Fixflex – Task Marketplace Platform

[Live Demo](#) | [GitHub](#)

- Designed and implemented scalable RESTful APIs using TypeScript and Node.js
- Set up CI/CD pipelines with Docker Swarm deployment on AWS EC2
- Implemented real-time chat using WebSockets and OneSignal notifications
- Integrated Paymob payment gateway and Google OAuth 2.0
- Built comprehensive testing suite using Jest and Supertest

TECHNICAL EXPERTISE

Languages & Frameworks:	Go, Gin, TypeScript, Node.js, Express.js, Tsoa
Database Technologies:	PostgreSQL, MongoDB, Redis, Drizzle ORM, Mongoose
Cloud & DevOps:	AWS (EC2, S3, SQS), Docker, CI/CD (GitHub Actions)
Third-Party Integrations:	Stripe, Paymob, Mada, Tabby, Tamara, WhatsApp Business API, OneSignal
Development Practices:	Agile, Git-Flow
Specialized Tools:	ffmpeg, yt-dlp