Ahmad Mostafa *Software Engineer*

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SUMMARY

Results-driven Software Engineer with expertise in building **high-performance applications** using **Go** and **Node.js**. Experienced in **API design** and **distributed system architectures**. Successfully delivered multiple projects for both companies and freelance clients, focusing on scalable solutions and quality code.

EXPERIENCE

Software Engineer at TechBridge Lab
Aug 2024 – Present

*Developing and maintaining multiple high-impact **SaaS** projects:*

DubbingHub — AI-Powered Video Dubbing Platform

- Built **distributed video processing system** with **Go**, **AWS SQS**, and **S3**
- Designed and implemented **multi-stage pipeline** integrating AI services (Deepgram, Play.ht, Replicate) for speech recognition, translation, and voice synthesis
- Implemented **Stripe-powered billing** with token-based subscription tiers
- Built secure **YouTube integration** with OAuth authentication and **PubSubHubbub** (WebSub) protocol for real-time content change notifications and automatic video processing
- Utilized **FFmpeg** for media processing to handle audio extraction, manipulation, and preservation of soundtracks

Feedbq.io — Enterprise Feedback Management Platform

- Implemented **Caching System** using Redis, reducing API response times by **60%**
- Executed **database migration** from MongoDB to PostgreSQL with zero data loss using **Drizzle ORM**
- Built integration system connecting 6+ project management and communication platforms (**Discord**, **Slack**, **Jira**, **ClickUp**, **Asana**, **Linear**)
- Implemented **tiered subscription billing system** with **Stripe**
- Created comprehensive API documentation with Swagger/Tsoa and implemented content moderation system

Freelance Software Engineer
Oct 2023 – Present

*Delivering end-to-end **backend solutions** for diverse client needs:*

Leopard ERP & E-commerce Platform

- Designed and developed **comprehensive ERP system** with integrated **e-commerce functionality**
- Implemented **multi-warehouse inventory system** with stock transfers and movement tracking
- Integrated Paymob payment gateway supporting multiple payment methods with vendor management
- Created comprehensive analytics dashboard with **financial reporting**
- Built fixed asset management module with book value tracking

Rakad On-Demand Car Wash Platform

- Developed Node.js/TypeScript backend with MongoDB for **on-demand car wash marketplace**
- Implemented **geospatial service matching algorithm** for efficient worker-to-customer assignment
- Built real-time location tracking with **WebSocket** for updates and notifications
- Integrated **multiple payment gateways** (Moyasar, Tabby, Tamara)
- Designed worker earnings system with automated commission calculations and admin dashboard

Parent-Connect Social Platform

- Developed **intelligent matching algorithm** connecting parents based on children's educational activities

- Implemented secure authentication with OAuth for multiple login providers
- Created location-based services for community building

TECHNICAL SKILLS

Programming & Frameworks:	**Golang**, **Node.js**, TypeScript, JavaScript, Express, Gin, NestJS, React
Databases & ORM:	**PostgreSQL**, **MongoDB**, Redis, Drizzle ORM, Mongoose
Cloud & DevOps:	**AWS** (EC2, S3, SQS), **Docker**, Nginx, CI/CD (GitHub Actions)
API Technologies:	OpenAPI/Swagger, **WebSockets**, PubSubHubbub/WebSub, Webhooks, OAuth
Payment Systems:	**Stripe**, Paymob, Moyasar, Tabby, Tamara
Tools & Services:	FFmpeg, Git, Jest, AI Services Integration (Deepgram, Play.ht, Replicate)

EDUCATION

Bachelor's Degree in Computer Science, Helwan University - Cairo, Egypt, GPA: 3.1/4.0

Graduation Project: Fixflex ⊙ GitHub
- Developed platform connecting homeowners with service providers
- Implemented real-time chat, location-based service matching, and payment processing
- Technologies: Node.js, TypeScript, MongoDB, WebSocket, Redis