

## SUMMARY

Backend-focused Software Engineer with hands-on experience designing and delivering **scalable, high-performance systems** using **Go**, **Node.js**, and **React**. Skilled in **API design**, **microservices**, and **distributed architectures**, with a strong focus on reliability, clean code, and system performance. Proven track record of building **SaaS platforms**, **AI-powered applications**, and **e-commerce solutions** for Corporate and SMEs.

## EXPERIENCE

### Software Engineer at Classera

*Nov 2025 - Present Full-time · Hybrid · Cairo, Egypt*

Leading **EdTech** platform serving 30M+ users across 40+ countries:

- Contributing to migration of legacy PHP codebase to **Golang** with **DDD principles**, enhancing performance and scalability
- Collaborating with senior engineers, product, and design teams on architecture decisions and code reviews

### Full Stack Engineer at TIXAE.AI

*Jun 2025 - Oct 2025 Full-time · Florida, United States · Remote*

Developing **AI-powered solutions** for modern businesses at a leading AI automation company:

#### PastPal — AI-Powered Writing Platform

- Collaborated on **RAG**-powered story-assistant chat with **Vercel AI SDK** and **OpenAI**, retrieving user's stored chapters and notes from DB to suggest and continue the story in natural language
- Architected **multi-tier billing system** with **Stripe** and **enterprise team management system** with RBAC
- Developed **collaborative editor** using **Tiptap** with version control and role-based permissions
- Optimized database queries, reducing average page load time by **50%**

### Software Engineer at TechBridge Lab

*Aug 2024 - May 2025 United States · Remote*

Developed and maintained multiple high-impact **SaaS** projects:

#### DubbingHub — AI-Powered Video Dubbing Platform

- Architected **distributed video processing pipeline** using **Go**, **AWS SQS**, and **S3** for scalable video processing
- Integrated **4 AI services** (**Replicate**, **Deepgram**, **DeepL**, **Play.ht**) into **multi-stage pipeline** for audio separation, speech-to-text transcription, neural translation, and voice synthesis
- Implemented **token-based subscription system** with **Stripe** and automated billing and usage tracking
- Built **YouTube OAuth integration** with **PubSubHubbub protocol** for real-time content change notifications and automatic video processing
- Optimized **FFmpeg** processing scripts for audio extraction, manipulation, and preservation of soundtracks

#### Feedbq.io — Enterprise Feedback Management Platform

- Implemented **Redis caching layer** with TTL strategies and cache invalidation, reducing API response times by **60%** (from 800ms to 320ms)
- Led **database migration** from MongoDB to PostgreSQL using Drizzle ORM with **zero downtime** and **100%** data integrity
- Engineered **webhook-based integration system** connecting **6+ platforms** (Discord, Slack, Jira, ClickUp, Asana, Linear)
- Developed tiered subscription billing with **Stripe**, supporting **3 pricing tiers**
- Created **OpenAPI documentation** automatically with Swagger/Tsoa

- Implemented **automated content moderation system** before human review

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## Freelance Software Engineer

2023 - Present Remote

Delivering *end-to-end solutions* for *international clients* across diverse industries:

### Gen Z Wellness App — Comprehensive Wellness Platform

- Architected full-stack wellness platform using **NestJS** and **Next.js** deployed on **Azure** (Cosmos DB, Blob Storage, App Service) with **CI/CD pipelines** supporting 18+ provider categories
- Built **real-time chat system** with **WebSocket** and anonymous community platform (Zync) with threaded discussions and automated content moderation
- Integrated **Stripe payment processing** and **Google Calendar** with OAuth2, automatic event creation, and Google Meet link generation
- Developed **automated mental health scoring system** for validated assessments (PHQ-9, GAD-7) with wellness tracking (mood, sleep, diet, fitness)

### Leopard ERP & E-commerce Platform

- Architected and delivered **full-stack ERP system** with integrated e-commerce functionality
- Engineered **multi-warehouse inventory system** with movement management
- Integrated **Paymob payment gateway** supporting 3+ payment methods, achieving **100% transaction success rate** and handling vendor management
- Built financial analytics dashboard with automated reporting and real-time business insights
- Developed 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 matching algorithm** using **MongoDB geospatial queries** for efficient worker assignment
- Built **real-time tracking system** with **WebSocket** for location updates and notifications
- Integrated 3 payment gateways (Moyasar, Tabby, Tamara) with automatic fallback
- Created automated commission system with transparent earnings tracking
- Designed admin dashboard with metrics for operations management

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## TECHNICAL SKILLS

<b>Languages &amp; Frameworks:</b>	<b>Golang, Node.js, TypeScript, React, JavaScript, Express.js, Gin, NestJS, Next.js</b>
<b>Databases &amp; Caching:</b>	<b>PostgreSQL, MongoDB, Redis, Firebase, Drizzle ORM, Mongoose</b>
<b>Cloud &amp; Infrastructure:</b>	<b>AWS (EC2, S3, SQS), Docker, Nginx, Linux, Serverless</b>
<b>DevOps &amp; CI/CD:</b>	GitHub Actions, Git, Docker Compose, <b>CI/CD Pipelines</b>
<b>API &amp; Architecture:</b>	<b>RESTful APIs, WebSockets, OpenAPI/Swagger, Webhooks, OAuth 2.0, PubSubHubbub/WebSub, API Design, Microservices</b>
<b>AI Integration:</b>	<b>RAG, Vercel AI SDK, OpenAI, Replicate, Deepgram, DeepL, Play.ht</b>
<b>Testing &amp; Quality:</b>	Jest, Go testing, Testify, TDD
<b>Payment Integration:</b>	<b>Stripe, Paymob, Moyasar, Tabby, Tamara</b>
<b>Tools:</b>	FFmpeg, Tiptap

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## EDUCATION

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

**Graduation Project:** Fixflex  **GitHub** **A+**

- 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, Nginx, AWS