Mahmoud Hassan Mustafa Kamal

Software Engineer

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○ MahmoudHassanMustafa

Summary

Senior Software Engineer specializing in scalable backend architectures and cloud platforms. Experienced in designing resilient, high-performance systems and building AWS infrastructures for large-scale applications. Skilled in integrating AI-powered solutions and proficient in Node.js, cloud architecture, DevOps automation, and full-stack development, consistently delivering secure, enterprise-grade software solutions.

Technical Skills

Languages & Frameworks: JavaScript/TypeScript, Node.js, NestJS, Express.js, React.js, Next.js
Databases: MySQL, PostgreSQL, MongoDB, DynamoDB, Redis, Pinecone
Cloud & DevOps: AWS (EC2, ECS, ECR, Lambda, EventBridge, Secrets Manager, RDS, SES, SQS, SNS, OpenSearch), Docker, Kubernetes, Terraform, ArgoCD
AI & ML: OpenAI API, AgentKit, Whisper API, MCP
Tools: Git, Nginx, RabbitMQ, Socket.io, Firebase, Grafana, Prometheus
Payments: MoneyHash, Stripe, Paymob, Moyasar, Tab

Experience

Backend Engineer
Nojom ⧉ – Remote, Saudi Arabia
AdTech SaaS | Influencer Marketing Platform

August 2024 – Present

- Engineered scalable backend infrastructure for marketplace connecting 5,000+ brands and influencers. Integrated **MoneyHash payment orchestrator** processing hundreds of transactions monthly (99.8% uptime) and deployed comprehensive **wallet system** reducing settlement time from 7 days to 24 hours.
- Built **AI-powered influencer recommendation engine** using OpenAI embeddings, improving brand-influencer match rates by 45% and campaign setup time by 30%. Optimized database queries and API performance, reducing response time from 60s to 270ms and supporting 10K+ concurrent users.
- Implemented **AWS Secrets Manager** with automated rotation via EventBridge/Lambda for SOC 2 compliance. Deployed zero-downtime strategy using PM2 rolling updates, achieving 100% request completion during deployments.

Technical Project Manager
Mzad Arab ⧉ – Remote, Qatar
E-Commerce | Auction & Social Marketplace Platform

January 2025 – October 2025

- Led end-to-end technical delivery of auction marketplace across Android, iOS, and web, coordinating external teams to launch within 8-month timeline. Managed development roadmap, defined tech stack (Kotlin, Swift, Firebase, PHP, Node.js, React, MySQL), and tracked 100+ feature milestones.
- Conducted technical validation and QA of auction systems and social features, identifying and resolving 200+ bugs pre-launch. Established project management infrastructure using ClickUp, supporting distributed team of 12 contributors.

Software Engineer
Tech Hive ↗ – Remote, Egypt

November 2022 –
December 2024

Software House | AI Solutions & SaaS Development

- **AppAsap** ↗ – Architected AI-powered SaaS platform auto-generating production-ready RESTful APIs, database schemas, and admin dashboards from natural language (70% development time reduction). Built **MCP server** for Cursor IDE integration, expanding ecosystem reach by 200%. Automated AWS deployments with Terraform/ArgoCD, reducing infrastructure provisioning from 4 hours to 15 minutes.

- **SAL125** ↗ – Developed multilingual life management platform serving 3,000+ users. Integrated OpenAI Assistant API handling 15K+ monthly interactions. Architected scalable AWS infrastructure with ECS/ECR containerization achieving 99.95% uptime.

- **Essam AI** ↗ – Built AI-driven Lean Six Sigma optimization platform. Implemented OpenAI Assistant API for intelligent process analysis and automated Swimlane Diagram generation, reducing process mapping time from 8 hours to 30 minutes.

Education

Suez Canal University – Faculty of Computers and Informatics

September 2017 – May 2021

Information Systems, *Excellent*

Relevant Coursework:
Database Management Systems, Systems Analysis & Design, Information Security, Business Intelligence, Data Analytics, Web Development