

Mohammad Ismail Reda Ismail AlMahllawi

Software Developer

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PROFESSIONAL SUMMARY

Backend Engineer specializing in Node.js and NestJS, with hands-on experience architecting scalable RESTful APIs, relational database design (PostgreSQL), and API security (JWT, RBAC, OAuth). Strong infrastructure background managing Linux servers, CI/CD pipelines, and internal developer tooling for a distributed team. Proven track record delivering end-to-end backend systems, real-time features, and clean, maintainable architecture.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, SQL

Backend: Node.js, NestJS, TypeORM/Prisma, REST APIs

Databases: PostgreSQL, MongoDB

Web Security & Auth: JWT, OAuth, RBAC, CORS, SSL/TLS, OWASP Best Practices

Tools & OS: Git, GitHub, Linux, Docker, Nginx, Swagger

Architecture & Design: REST, GraphQL, Microservices, Design Patterns, Domain-Driven Design, CI/CD

Caching & Messaging: Redis, WebSockets

Testing: Unit Testing, Integration Testing

EXPERIENCE & TRAINING

Freelance Software Developer – Independent Contractor

Jun 2019 – May 2026

- Delivered custom automation and backend solutions for a mix of one-off and recurring clients, engineering interactive automation and moderation bots (Node.js, Discord API) that handled real-time support routing and automated content filtering for active communities.
- Developed and maintained backend scripts for multiplayer servers using Lua and MariaDB, implementing concurrent logic, state synchronization, and database persistence to support sustained active player loads.
- Configured, secured, and managed remote Linux servers for client deployments, handling network configuration, automated backups, and uptime monitoring.
- Managed the full client lifecycle for RESTful utility projects – requirements gathering, version control (Git/GitHub), delivery, and ongoing technical support – across multiple independent engagements.

DevOps / Infrastructure Manager

May 2026 – Present

- Manage and optimize the development environment for a distributed dev team, identifying recurring workflow bottlenecks and driving them to resolution to reduce lost engineering time.
- Built internal tooling and scripts that automated previously manual developer workflows, cutting repetitive setup and maintenance work across the team.
- Set up and maintained CI/CD and build pipelines to standardize how code is tested and shipped, reducing inconsistent deployments across the team.
- Established coding standards and guidelines, and enforced environment/configuration consistency across developer machines and deployments to reduce environment-specific bugs.

EDUCATION

Tanta University

Oct 2022 – Jul 2026

B.Sc. in Computer Science

Tanta, Gharbia

GPA: 4.4/5.0 – Excellent with Honors.

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Systems, Computer Networks.

AWARDS

1st Place Winner – Science Students' Innovation Forum

Nov 26, 2025

Delta Region Universities Alliance

Awarded for the Tanta Financial System API, a financial ERP platform built for Tanta University.

PROJECTS

Tanta Financial System API – Financial ERP for Tanta University

TypeScript, NestJS, Prisma, PostgreSQL

[\[GitHub Repo\]](#) · [\[API Docs / Swagger\]](#) · [\[Live Demo\]](#)

- Architected a modular monolith backend (~48 REST endpoints, 10 tables) with JWT authentication and custom RBAC (Admin/User/Accountant roles) enforced via guards and interceptors.
- Built a transaction workflow and forwarding system with review states, budget-allocation tracking, and document upload/download for supporting files.
- Implemented real-time notifications and user presence tracking via Server-Sent Events (SSE), and Prisma database views to optimize complex budget/transaction queries.
- Covered the API with Jest unit and end-to-end tests, and documented endpoints with Swagger/OpenAPI.

CERTIFICATES

Full Stack Web Development Using Python – Information Technology Institute (ITI)

Aug 16 – Sep 19, 2025

LANGUAGES

English – Upper-Intermediate (B2)

Arabic – Native