

# MOHMED MOSTAFA

## Backend-focused Full Stack Developer

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### PROFESSIONAL SUMMARY

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Backend-focused full stack developer building secure APIs, automation systems, scraping workflows, dashboards, and Linux-ready product foundations. I focus on backend architecture, authentication, validation, service boundaries, database modeling, logging, API documentation, and practical automation. I work comfortably with TypeScript, JavaScript, Python, React, Express, FastAPI, MongoDB, Redis, Docker, and Linux.

### TECHNICAL SKILLS

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**Backend:** Node.js, Express, FastAPI, Django, REST APIs, JWT, cookies, Joi, Zod, Swagger/OpenAPI, Socket.IO

**Frontend:** React, SolidJS, TypeScript, Vite, Next.js, Tailwind, Zustand, TanStack Router, RTL interfaces

**Databases:** MongoDB, Mongoose, PostgreSQL, SQLite, SQLAlchemy, Redis

**Automation:** Playwright, Selenium, aiohttp, BeautifulSoup, Cheerio, scheduled jobs, Telegram Bot API

**Delivery:** Linux, Docker, Nginx, PM2, AWS, Amazon S3, Git, Cloudinary, deployment documentation

**Security:** Access control, role checks, ownership checks, rate limits, Helmet, CORS, PortSwigger BAC practice

### PROFESSIONAL EXPERIENCE

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#### Full Stack Engineer - Tahdir Plus

Remote, Saudi Arabia | Part-time | Sep 2025 - Present

- Develop practical education tools that reduce teachers' operational workload and support clearer student follow-up.
- Create comprehensive student performance reports that improve communication with parents.
- Design curriculum and semester-planning tools and build third-party extensions that improve teachers' daily workflows.

**Tools:** SolidJS, JavaScript, Node.js, React, Express, MongoDB, Amazon S3, Docker, Nginx, Linux

#### Freelance Web Automation & Data Scraping Developer - Odds Real-Time Notifier

Remote, Morocco | Freelance | Feb 2025

- Built a system that tracks live match odds and sends instant Telegram notifications.
- Implemented real-time browser automation and data tracking with Playwright and Node.js.
- Deployed the solution on AWS and integrated Telegram Bot API for instant alerts.

**Tools:** Node.js, Playwright, AWS, SQLite, PostgreSQL, Python, Telegram Bot API

#### MERN-Stack Developer Intern - Digital Egypt Pioneers Initiative (DEPI)

Banha, Egypt | Hybrid Internship | Oct 2024 - Apr 2025

- Completed practical full stack training focused on building, reviewing, and delivering MERN applications.
- Worked with REST APIs, Docker, Git, Postman, UI/UX, code review, and modern development workflows.

**Tools:** Node.js, TypeScript, JavaScript, React, Express, REST APIs, Docker, Postman, Git, GitHub

## SELECTED PROJECT EXPERIENCE

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### Qutof - E-commerce API

Backend Owner | TypeScript, Express, MongoDB, JWT, Joi, Cloudinary, Swagger, Winston

- Built a production-ready REST API for a commerce platform with auth, products, orders, media, and bilingual API behavior.
- Implemented JWT access/refresh auth, validation, OpenAPI docs, uploads, rate limiting, hardening, and rotating logs.

### Edu-Card Ecosystem - Education Operations Platform

Full Stack Builder | React, Zustand, Express, MongoDB, Redis, JWT, Zod

- Built dashboard and API workflows for students, groups, attendance, subscriptions, notes, and admin controls.
- Connected React workflows with backend services for auth, permission guards, localization, and education domain models.

### Automation and Scraping Systems

Automation Builder | Python, Playwright, Selenium, aiohttp, BeautifulSoup, Cheerio, SQLite

- Built browser automation and async scraping for dynamic pages, sports/event data, directory extraction, and scheduled checks.
- Implemented batching, retry handling, SQLite-backed job state, structured exports, and bot notifications.

### ZATCA Bridge - FastAPI Accounting Integration

Backend Modernization Builder | Python, FastAPI, SQLAlchemy, Alembic, JWT, TypeScript, Docker

- Worked on modular API controllers, standardized responses, JWT auth, granular permissions, database services, and migrations.
- Integrated an Arabic-ready frontend with enterprise-style accounting workflows and a structured Python backend.

## EDUCATION

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### Bachelor's Degree in Computer Science and Information Systems

Computer Science Institute, Culture and Science City | 2023 - Expected 2027

Field of study: Computer Science

## CERTIFICATIONS

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- PortSwigger Web Security Academy - Broken Access Control labs and practical web security practice.
- DEPI English Track - English communication track for technical and product delivery.
- DEPI React - React track completion with practical frontend delivery focus.
- InnovEgypt Entrepreneurship - Product thinking and entrepreneurship mindset.

## LANGUAGES

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Arabic: Native | English: Professional working proficiency