

Mohmed Mostafa Youssef

Backend-Focused Software Engineer

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Summary

Backend-focused software engineer working mainly with Node.js and TypeScript. At Tahdir Plus, I build Arabic education products across APIs, dashboards, student workflows, document generation, and production deployment. My recent work includes NAFS Challenge, a gamified mathematics platform for Grade 3 and Grade 6 students across 18 Saudi education departments. I am comfortable taking a feature from its data model and API contract through testing, frontend integration, and Linux deployment.

Technical Skills

Backend	Node.js, TypeScript, Express.js, FastAPI, REST APIs, JWT, OpenAPI, Socket.IO
Data	MongoDB, Mongoose, PostgreSQL, SQLite, Redis, SQLAlchemy, Prisma
Frontend	React, SolidJS, Vite, Tailwind CSS, TanStack Query, Zustand, RTL interfaces
Engineering	Authentication, authorization, validation, idempotency, rate limiting, logging, unit and integration testing
Delivery	Linux, Docker, Docker Compose, Nginx, PM2, AWS, Amazon S3, Git, GitHub Actions
Automation	Playwright, Selenium, async HTTP, web scraping, scheduled jobs, Telegram Bot API

Experience

Full Stack Engineer

Tahdir Plus / YNAFS, Remote

Sep 2025 – Present

Saudi Arabia – Part-time

- Build Arabic-first education products used for teacher workflows, student activities, curriculum planning, reports, and parent communication.
- Developed backend APIs and dashboard features across Node.js, Express, MongoDB, React, and SolidJS applications.
- Built document and PDF workflows for educational reports, term plans, calendars, worksheets, and printable materials.
- Worked on browser-extension integrations and automation that reduce repetitive work on Saudi education platforms.
- Deploy and maintain services with Docker, Nginx, Linux, MongoDB, Redis, and Amazon S3.

Freelance Web Automation and Data Scraping Developer

Odds Real-Time Notifier, Remote

Feb 2025

Morocco

- Built a service that monitored live match odds and sent Telegram alerts when tracked values changed.
- Used Node.js and Playwright for browser automation, stored job data in SQLite/PostgreSQL, and deployed the service on AWS.
- Delivered the project directly to the client and received a public LinkedIn recommendation.

MERN-Stack Developer Intern

Digital Egypt Pioneers Initiative (DEPI)

Oct 2024 – Apr 2025

Banha, Egypt – Hybrid

- Completed practical full-stack training focused on designing, building, reviewing, and delivering MERN applications.
- Worked with REST APIs, React, Express, Docker, Postman, Git, GitHub, code review, and UI/UX fundamentals.

Selected Projects

NAFS Challenge

nafs.ynafs.com

Full Stack Engineer – TypeScript, Express, React, MongoDB, Redis, OpenAPI

- Built an Arabic gamified mathematics challenge for Grade 3 and Grade 6 students across 18 Saudi education departments.
- Designed server-controlled scoring, timing, answer validation, resumable attempts, progress tracking, weekly and seasonal honor rolls, and administrator analytics.
- Implemented protected student and administrator sessions, Redis-backed caching and rate limits, MongoDB persistence, idempotent answer submission, API documentation, automated tests, and Arabic PDF reports.

Qutof API

[GitHub](#)

Backend Owner – TypeScript, Express, MongoDB, JWT, Joi, Cloudinary

- Built a REST API for a bilingual e-commerce product covering authentication, catalog management, orders, media uploads, validation, and OpenAPI documentation.
- Added access and refresh token flows, rate limiting, security headers, structured error handling, and rotating application logs.

EduCard

educrds.com

Full Stack Engineer – React, Express, MongoDB, Redis, JWT

- Built student, group, attendance, subscription, notes, and administration workflows for an Arabic education operations platform.

Taqrery

taqrery.ynafs.com

Full Stack Engineer – React, TypeScript, React PDF, Tailwind CSS

- Developed reusable Arabic PDF templates, term roadmaps, semester plans, calendars, and browser print/export workflows with mobile-friendly delivery.

ShiftCore Mission Control

shift-core.com – [Documentation](#)

Technical Lead / Contributor – Express, PostgreSQL, Docker, Nginx

- Contributed technical planning, Scrum documentation, software requirements, task design, backend services, API integration, deployment, and frontend coordination.

Education

Bachelor's Degree in Computer Science and Information Systems

2023 – Expected 2027

Higher Institute of Computer Science and Information Systems, Culture and Science City

Certifications and Training

- React Frontend Web Developer, Digital Egypt Pioneers Initiative – 2025
- Business English Track, Digital Egypt Pioneers Initiative and Berlitz Egypt – 2025
- Metasploit: Basics of Exploitation, Coursera – 2024
- InnovEgypt Entrepreneurship Program

Languages

Arabic (native) | English (professional working proficiency)