

Mohamed Ahmed Mohamed Badwy

Software Engineer — Frontend, Backend & Network

mohamed.badwy.dev@gmail.com | [LinkedIn](#) | [GitHub](#) | Alexandria, Egypt

PROFESSIONAL SUMMARY

Junior Software Engineer focused on full-stack web development using **Next.js**, **React**, **TypeScript**, and **Node.js**. Built full-stack web applications with **REST APIs**, authentication and authorization, and **SQL databases**. Focused on writing clean, maintainable, and secure software while continuously developing strong software engineering practices.

TECHNICAL SKILLS

Languages: TS, JS (ES6+), HTML5, CSS3, C++, Python

Frontend: React.js, Next.js, Tailwind CSS, TanStack Query, Redux Toolkit, React Hook Form, Zod

Backend: Node.js, Express.js, REST APIs, JWT, NextAuth

Databases: MySQL, MongoDB

ORM/ODM: Sequelize, Mongoose

Engineering: Authentication, Authorization, API Integration, State Management, Form Validation

Tools: Git, GitHub, Postman, Vercel

SELECTED PROJECTS

Social Media Application | *React, Node.js, TanStack Query, Zod*

Dec. 2025

- Full-stack social platform with **Node.js/Express REST API**; cut network requests **40%** via TanStack Query caching.
- JWT authentication**, end-to-end Zod validation, and dynamic client-side routing.

E-Commerce Platform | *Next.js, Node.js, NextAuth, Axios*

Jan. 2026

- Built an e-commerce platform using **Next.js**, including server-side rendering, structured metadata, and REST API integration.
- Implemented **NextAuth** for session management, product filtering, and synchronization between the shopping cart and backend.

CyberVault | *Next.js, TypeScript, Node.js, SQL, Tailwind CSS*

2026

- Developed a full-stack banking platform with **Next.js** and **Node.js**, featuring secure account management, balance tracking, and **debit, credit, and transfer** transactions.
- Implemented **role-based access control** for customers, employees, and administrators, with authentication, session management, and protected routes across the application.

EDUCATION

Bachelor of Communication and Electronics Engineering

Sep. 2021 – July. 2026

Alexandria University

Alexandria, Egypt

RELEVANT COURSEWORK

Data Structures & Algorithms, Operating Systems, Computer Architecture, Networks, Python & C

PROFESSIONAL DEVELOPMENT

Full-Stack Development Diploma | *Route Academy*

Feb. 2025 – July. 2026

- Full-stack curriculum: React.js, Node.js, Express, databases. Shipped multiple production capstone projects.