

Mohamed Hany Abd El-Fatah

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SUMMARY

I am a backend-focused full-stack developer specializing in Node.js and server-side applications. While maintaining full-stack competency, my expertise and career objectives center on backend development, API design, and database architecture where I excel under pressure and rapidly master new technologies.

EDUCATION

Egyptian Chinese University

Bachelor in Software Engineering (CGPA: 3.86/4.0)

Giza, Egypt

Jan. 2020 – Dec. 2025

GRADUATION PROJECT

Moktashif – AI-Powered Cybersecurity Web Application | *Final Year Project - Grade: A+*

2025

- Developed Moktashif, an automated vulnerability web scanner that analyzes websites by taking their URLs and scanning them to identify security vulnerabilities. The system employs two distinct scanning approaches: the first utilizes Nuclei templates for comprehensive vulnerability detection, while the second leverages three specialized AI agents to identify potential security flaws. Both approaches send raw vulnerability data to a search agent that categorizes findings and provides detailed vulnerability descriptions, remediation steps, risk levels, and additional learning resources.
- Built a full-stack React application featuring automated vulnerability scanning, AI chatbot integration for cybersecurity consultation, interactive dashboards with data visualization, and secure user authentication.
- Developed comprehensive backend using Node.js, Express, and MongoDB with user authentication, automated vulnerability scanning through external APIs, AI-powered threat analysis, scan history management, and secure file uploads with Cloudinary integration.
- Integrated a specialized cybersecurity chatbot that exclusively answers cybersecurity-related questions, providing expert consultation and guidance to users.
- Implemented PDF report generation and comprehensive security analysis capabilities for web applications and infrastructure assessment.
- Frontend Repository: [GitHub - Frontend](#)
- Backend Repository: [GitHub - Backend](#)

PROJECTS

E-commerce (in progress) | *Backend*

[GitHub](#)

- Built comprehensive e-commerce backend API using Node.js, Express, and MongoDB with full CRUD operations
- Implemented user authentication, product catalog management, and shopping cart functionality
- Integrated Stripe payment processing, coupon system, and role-based access control
- Developed order processing workflows and comprehensive API documentation

Task Management System | *Backend*

[GitHub](#)

- Developed a comprehensive Node.js task management system designed as a collaborative productivity platform with user registration and email verification
- Implemented customizable task organization with three category types (To Do, In Progress, Done) and flexible task visibility options (public/private)
- Built secure authentication system using JWT tokens, integrated Cloudinary for user profile image storage, and implemented MongoDB for data persistence
- Created full CRUD operations with pagination functionality, enabling both personal task organization and public task sharing for collaborative workflows

Fresh Cart - E-commerce Web Application | *Frontend*

[GitHub](#)

- Developed a comprehensive online shopping platform using React with modern development practices
- Implemented user authentication, product management, and cart functionality using React hooks
- Integrated payment processing and utilized Context API for state management
- Built responsive user interface with seamless RESTful API integration

Job Board Platform | *Backend*

[GitHub](#)

- Created a comprehensive job board platform connecting employers with job seekers
- Implemented functionality for employers to post job listings and manage applications
- Built job search and application features for job seekers with filtering capabilities
- Developed user authentication and role-based access for different user types

Upvote Community Platform | *Backend*

[GitHub](#)

- Developed a community-driven platform where users can express approval through voting mechanisms
- Implemented content ranking system based on community upvotes and engagement
- Built user interaction features to promote community participation and content discovery
- Created responsive design with real-time voting updates and content popularity tracking

CERTIFICATES

Backend (Node.js) Diploma | *Route IT Training Center*

[Certificate](#)

- Completed comprehensive backend development program focusing on Node.js, Express.js, and MongoDB
- Gained expertise in RESTful API development, database design, and server-side architecture
- Learned advanced concepts including authentication, middleware, and deployment strategies

Frontend Development Certificate | *Training Program*

[Certificate](#)

- Mastered modern frontend development using HTML5, CSS3, JavaScript, and React.js
- Applied responsive design principles and cross-browser compatibility techniques
- Gained proficiency in DOM manipulation, AJAX, and modern JavaScript (ES6+) features

Problem Solving Certificate | *Programming Fundamentals*

[Certificate](#)

- Developed strong analytical and problem-solving skills through algorithmic challenges
- Enhanced computational thinking and data structure knowledge
- Improved code optimization and debugging capabilities

TECHNICAL SKILLS

Programming Languages: JavaScript, Node.js, C++, HTML5, CSS3

Backend Technologies: Express.js, RESTful APIs, GraphQL, Socket.io, Nest.js

Frontend Technologies: React.js, Bootstrap, Tailwind CSS, DOM & jQuery, AJAX

Databases: MongoDB & Mongoose ODM, MySQL & Sequelize ORM

Development Tools: Git & GitHub, Problem Solving, Data Structures & Algorithms

Other Skills: Object-Oriented Programming (OOP), ES6+, Team Collaboration, Communication

LANGUAGES

Arabic: Native proficiency

English: Intermediate proficiency