

# Mohamed Ahmed Abdelghany

## Backend Developer

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

### PROFILE SUMMARY

Backend Developer with a strong foundation in building secure, scalable web applications using PHP (Laravel) and Node.js (Express). Experienced in designing RESTful APIs, managing MySQL/MongoDB databases, and implementing secure authentication systems (JWT/OAuth). Proven ability to deploy production-ready systems using Docker and maintain clean code architectures (SOLID, MVC). Dedicated to optimizing system performance, Passionate about backend engineering, clean code, and developing production-ready systems.

### EDUCATION

**Bachelor of Computer Science, Faculty of Computers and Artificial Intelligence – Cairo University (2020-2024)**

**Relevant Coursework:** Web Development, Database Systems, OOP, Software Engineering, Data Structure

### PROFESSIONAL EXPERIENCE

**Full Stack Trainee | Information Technology Institute (ITI) Jun 2025 – Nov 2025 | New Capital, Egypt**

- Architected and developed scalable RESTful APIs using PHP, Laravel, and Node.js to support complex web application features.
- Managed database operations by designing normalized MySQL schemas, optimizing queries, and ensuring data integrity across relational tables.
- Streamlined the development workflow by implementing Docker containers for consistent environments and utilized Git for version control in a team setting.
- Led the backend integration in an Agile team, collaborating with React developers to define API contracts and resolve version control conflicts using Git.

**Backend Developer Intern (Sep 2024-Nov 2024)**

Orange Digital Center [Cairo, Egypt]

- Developed and documented high-performance RESTful APIs using PHP and Laravel, serving as the core infrastructure for web application projects.
- Optimized API performance and reduced latency by refactoring codebase and improving database query efficiency (Eloquent ORM/SQL).
- collaborated with the development team to implement secure data handling practices and backend validation logic.

### TECHNICAL PROJECTS

**Travel Automation Platform (Freelance Project) | (Node.js, Express, Playwright, MongoDB) [\[GitHub Link\]](#)**

- A full-stack travel automation system using Playwright for browser automation, enabling automated hotel bookings on Booking.com and flight reservations on Nouvelair.
- Developed RESTful APIs with Express.js for booking management, featuring session-based authentication, PDF generation (PDFKit), and automated email notifications (Nodemailer).
- Implemented intelligent booking logic with budget filtering, free cancellation prioritization, and multi-account session rotation to ensure booking reliability.
- Built a modern admin dashboard with real-time booking status tracking, PDF regeneration, and comprehensive booking management capabilities

**Clinic Management System | (Node.js, Express, MongoDB, TypeScript) [\[GitHub Link\]](#)**

- Designed a modular backend architecture using Node.js and Express, featuring dedicated APIs for appointment scheduling and medical record management.
- Implemented rigorous security protocols, including Role-Based Access Control (RBAC) using JWT middleware to secure routes for Doctors and Patients.

- Enforced data integrity using Mongoose schemas and secured user credentials with bcryptjs hashing and express validator for input sanitization.

### **Real-time Collaboration Tool | (Node.js, Socket.io, MongoDB) [[GitHub Link](#)]**

- Built a real-time Kanban board backend using Socket.io (Web Sockets), enabling instant synchronization of task updates across all connected clients.
- Designed a performance-optimized MongoDB schema to handle nested lists and cards, ensuring efficient read/write operations for complex board states.
- Implemented optimistic UI update logic on the server side to ensure zero-latency user interactions during task reordering.

### **Full-Stack E-Book Platform | (Node.js, Express, MongoDB, Angular) [[GitHub Link](#)]**

- Built a comprehensive e-commerce backend from scratch using Clean Architecture principles, utilizing reusable services and centralized error handling.
- Developed complex API endpoints for product filtering, inventory management, and cart operations, supported by optimized MongoDB aggregations.
- Integrated secure order processing workflows and admin dashboard capabilities for inventory control and user management.

## **SKILLS**

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**Backend Engineering:** PHP, Laravel, Node.js, Express.js, RESTful APIs, MVC, SOLID Principles.

**Frontend Familiarity:** HTML5, CSS3, JavaScript, TypeScript, React, Angular.

**Database Management:** MySQL (Relational), MongoDB (NoSQL), Database Normalization, Schema Design.

**DevOps & Tools:** Docker, Git & GitHub, Linux, Apache, Postman, AWS.

**Soft Skills:** Problem-Solving, Team Collaboration, Communication, Presentation.

## **CERTIFICATES**

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- **Software Development Process – Udacity (2023)**
- **Programming Foundations – LinkedIn (2022)**