

# MOSTAFA ALAA

## BACK-END DEVELOPER

### PROFESSIONAL SUMMARY

Motivated Electronics and Communication Engineering student with experience in Laravel backend development with a focus on clean, secure code and efficient frontend-backend integration. Skilled in building RESTful APIs, managing authentication, and optimizing backend performance. Passionate about clean, secure code and seamless frontend-backend integration.

### CONTACT

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### WORK EXPERIENCE

- **Back End Development With Laravel**
  - Built RESTful APIs using Laravel, handling authentication, user management, and database operations.
  - Worked closely with a front-end team to ensure smooth integration.
  - Improved backend performance and security using best practices

### EDUCATION

Zagazig University Bachelor's Degree in  
Electronics and Communication Engineering,  
Second-Year Student (2023 - Present)

### SKILLS

- **Languages & Frameworks:** PHP, Laravel, HTML, CSS
- **Tools:** Git, GitHub, MySQL, Postman
- **Soft Skills:** Teamwork, Communication, Problem-Solving

### PROJECTS

#### Sports Court Booking API – Smart Venue Reservation System

- **Technologies:** Laravel 12, MySQL, Laravel Sanctum, Stripe Payment Gateway, Queues&Jobs , Task Scheduling, Service Pattern.
- **Description:**
  - Engineered a high-performance RESTful API for managing sports venues and real-time court reservations using Laravel 12.
  - Implemented a complex overlap detection algorithm using Advanced Eloquent Scopes to prevent double-booking conflicts across different time slots.
  - Architected the backend using the Service-Repository Pattern and Polymorphic Relations to ensure code scalability, maintainability, and separation of concerns.
  - Integrated Stripe Payment Gateway with Webhooks to handle secure checkout flows and automate payment status synchronization in real-time.
  - Automated system maintenance and booking expiration cleanup using Laravel Task Scheduling (Cron Jobs).
  - Optimized API response time by offloading notification and email processes to background Queues & Jobs.
  - Enforced robust security and access control using Laravel Policies and Sanctum for role-based authentication (Admin, Venue Owner, Player).

### **Collaboration API – Task & Project Management System**

- **Technologies:** Laravel 12, Laravel Sanctum, Eloquent ORM, Queues & Jobs, Policies, RESTful API
- **Description:**
  - Developed a scalable RESTful API for project and task management with integrated team collaboration features. Used Queues & Jobs to send automated welcome messages asynchronously.
  - Implemented secure user authentication and session handling using Laravel Sanctum.
  - Built full CRUD operations for projects with role-based permissions (Owner, Admin, Member).
  - Added team invitation workflows and customizable roles to enhance collaboration.
  - Integrated automated email notifications for welcomes, invitations, and task updates using Events & Listeners.
  - Applied Laravel Policies to enforce granular and secure access control across all resources.
  - Designed a clean and scalable RESTful API structure.

### **Financing & Task Management API**

- **Technologies:** Laravel 12, Laravel Sanctum, Eloquent ORM, Queues & Jobs, Policies, RESTful API
- **Description:**
  - Built a combined task and expense management API with secure user authentication.
  - Used Queues & Jobs to send automated welcome messages asynchronously.
  - Applied Laravel Policies to ensure strict, per-user data access control.
  - Designed a clean and scalable RESTful API structure.

### **Job Board System**

- **Technologies:** Laravel, Eloquent, Events & Listeners, Mail, Notifications
- **Description:**
  - **Developing a job board platform where:**
    - **Users can apply for jobs and track status.**
    - **Companies manage applications and receive email notifications.**
    - **Implemented Laravel Events, Listeners, and Mail system for real-time actions.**

### **Clinic System**

- **Technologies:** Laravel, MySQL, Eloquent ORM, RESTful Routing, Validation, Authentication
- **Description:**
  - Developed a full-featured clinic management system where doctors can:
    - View daily appointments and patient counts.
    - Accept, reject, or confirm consultations.
    - Manage user roles (Doctor/Patient) with secure access.