Mohamed Fawzi Zaki

Backend Engineer | PHP/Laravel Specialist

📞 +20 106 049 4546 | ✉️ moahmedfawzizaki@gmail.com

🔗 LinkedIn | 💻 GitHub

Professional Summary

Backend Engineer with 3+ years of expertise in **PHP/Laravel backend systems**, specializing in **high-performance API development**, **e-commerce solutions**, and **scalable architecture**. Proven track record in building secure, maintainable systems using **SOLID principles**, **DDD**, **OOP**, **Design Patterns**, and **clean architecture**. Combines deep backend development skills with DevOps proficiency to deliver optimized, production-ready solutions. Passionate about **code quality** (PSR standards), **database optimization**, and **test-driven development**. Strong DevOps integration background with **Docker**, **Kubernetes**, **CI/CD pipelines**, and cloud platforms (**AWS**).

Technical Skills

Core Backend Expertise

- **Languages:** PHP 8.x, Laravel 10+, SQL, Bash
- **API Development:** RESTful APIs, OpenAPI/Swagger, Webhooks
- **Architecture:** Microservices, Domain-Driven Design (DDD), CQRS, Clean Architecture, MVC, Repository Pattern
- **Database Engineering:** MySQL (Query Optimization, Indexing, Replication), Redis (Caching, Queues)
- **Code Quality:** OOP, Algorithms, DataStructures, SOLID, DRY, KISS Principle PSR Standards, Design Patterns
- **Version Control**: Git, Github.

DevOps Integration

- **Infrastructure:** Docker, Kubernetes, Terraform
- **CI/CD:** GitHub Actions, Jenkins
- **Cloud:** AWS (EC2, S3, RDS, CloudWatch)
- **Monitoring:** Prometheus/Grafana

Security & Performance

- **API Security:** OAuth2 (Passport), JWT, Rate Limiting
- **Web Security:** CSRF/XSS Protection, SQL Injection Prevention
- **Optimization:** Redis Caching, Query Tuning, Load Testing

Collaboration & Process

- Git/GitHub, Agile, Jira.

Backend Projects

Laravel Multi-Vendor E-commerce Platform API

GitHub A robust and scalable RESTful API built with Laravel supporting vendor onboarding, product management, inventory, order processing, and settlements.

- Secure multi-vendor authentication & authorization (Sanctum)
- Product and variation support
- Vendor store and warehouse management
- Orders, carts, and checkout workflows
- Payment & settlement system
- Reporting, analytics, webhooks, and full test coverage
- **Stack:** Laravel 10+, MySQL, Redis, Laravel Queues, PHPUnit

Laravel-Multi-Gateway-Payments

GitHub A modular and extensible Laravel project for integrating multiple payment gateways (e.g., Stripe, Tap, PayPal, etc.) with unified interfaces, secure webhook handling, and clean service-based architecture.

Infrastructure Projects

End-to-End Kubernetes Microservices Pipeline

GitHub
Automated deployment pipeline for microservices on Kubernetes end-to-end (E2E) DevOps automation pipeline for deploying microservices using modern DevOps tools

- Built CI/CD with **GitHub Actions** using self-hosted runners
- Provisioned **Kubernetes clusters** via **Terraform** and **Ansible**
- Implemented **Helm charts** for service deployment
- Configured **service meshes** and **ingress controllers**
- Technologies: Kubernetes, Terraform, Helm, GitHub Actions
- **Impact:** Reduced deployment time by 75%

Production-Grade Web Stack with Docker Mesh

GitHub
A production-ready, full-stack web application deployment using Docker Compose with multi-tier networking, horizontal scaling, and service orchestration.

- Deployed a scalable **React + Node.js + MySQL** application stack behind **Nginx load balancers**
- Configured **horizontal scaling** for Node.js services and load balancing with Nginx
- Integrated **Redis** for caching and **phpMyAdmin** for database management
- Managed **secure networking** with separate public/private subnets and SSL support
- Automated deployments with custom Docker Compose files and environment-specific configurations
- Technologies: Docker Compose, React, Node.js, Nginx, MySQL, Redis, phpMyAdmin, Shell Scripts

Monitoring Stack on Kubernetes (Prometheus/Grafana/Jenkins)

[GitHub](#)

A lightweight DevOps stack for local Kubernetes environments using Helm and Minikube. Automates the deployment of Jenkins (CI/CD), Prometheus (monitoring), and Grafana (visualization) for rapid DevOps workflows and testing.

- Deployed **Jenkins, Prometheus & Grafana** on Minikube via **Helm**
- Configured **custom dashboards** and **metric scraping**
- Set up **persistent storage** for time-series data
- Technologies: Kubernetes, Helm, Prometheus, Grafana

Education

Faculty of Medicine, Sohag University, Egypt
2019 – 2025
Note: Self-taught DevOps/Cloud engineering through projects and certifications while completing medical degree.

Languages

- **Arabic:** Native
- **English:** Professional Proficiency