

Mohamed Fawzi Zaki

Backend Engineer | PHP/Laravel Specialist

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Professional Summary

Backend Engineer with experience 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, 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.
- **Message Brokers:** RabbitMQ, Kafka, AWS SQS, AWS SNS.

DevOps Integration

- **Virtualization:** VirtualBox, Vagrant.
- **Containers & Orchestration:** Docker, Kubernetes (EKS, Minikube), Helm.
- **Infrastructure as Code:** Terraform, Vagrant.
- **Configuration Management:** Ansible.
- **Version Control:** Git, Github.
- **CI/CD:** GitHub Actions, Jenkins, GitHub Webhooks.
- **Monitoring & Observability:** Prometheus/Grafana, CloudWatch.
- **Cloud (AWS):** EC2, S3, RDS, EKS, IAM, CloudWatch.
- **Networking:** Service meshes, load balancing (NGINX), distributed systems.
- **Security:** IAM, Secrets Management, SSL, Firewalls, Input validation, rate limiting, API token management, JWT, CSRF/XSS protection

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.
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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 Backend engineering through projects and certifications while completing medical degree.

Languages

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