

Emad Aldin Ali Abdulwahid

Senior Software Engineer

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Professional Summary

Senior Software Engineer with solid experience building web applications, backend services, API integrations, and working with microservice-based architectures. Core focus on PHP/Laravel, MySQL, MongoDB, and modern frontend frameworks like Vue and Nuxt. Experienced in optimizing heavy database queries, restructuring monolithic legacy codebases, contributing to incremental migration toward standalone services, and taking features from initial specs through deployment and production support.

EXPERIENCE

Freelance Software Engineer | 01/2026 – Present

Freelance - Remote

Main activities and responsibilities:

- Built a student learning and examination platform end-to-end using Laravel REST APIs and a Nuxt/Vue frontend.
- Led refactoring of an existing examination platform into a more modular architecture, improving maintainability and preparing the system for additional learning features.
- Built a third-party logistics plugin for a multi-vendor marketplace, handling dynamic shipping rates, shipment creation, pickup, webhooks, and location sync.
- Authored and published an open-source Laravel package for WebAuthn passkey authentication.
- Technologies used: PHP, Laravel, CI/CD, NuxtJS, VueJS, Pinia, REST API, MySQL, Git, Trello, Nginx.

Software Engineer | 01/2025 – 01/2026

EVOLVEX TECHNOLOGY - UAE

Main activities and responsibilities:

- Optimized Laravel analytics services processing millions of MongoDB records, using aggregation pipelines, indexing, caching, and background jobs to improve report-generation performance.
- Diagnosed and resolved API and database performance bottlenecks using indexing, caching, query optimization, and background processing.
- Developed a multi-channel notification system supporting Email, Firebase Push notifications, and Telegram for targeted and broadcast messaging.
- Integrated Laravel Reverb WebSockets for real-time dashboards, notifications, and live report updates.
- Participated in code reviews and maintained modular, testable, and maintainable code.
- Added passkey authentication to the admin dashboard to secure login flows.
- Collaborated with product and support teams to troubleshoot issues, define requirements, and deliver production features.
- Technologies: PHP, Laravel, PHPUnit, MongoDB, Redis, RabbitMQ, Firebase.

Software Engineer | 01/2024 – 12/2024

Iwinto - UAE

Main activities and responsibilities:

- Designed and built RESTful APIs powering both the web admin dashboard and the mobile app.
- Integrated key features including digital wallet payments, payment gateways, analytics logging, and transactional SMS.
- Set up backend deployment environments on VPS servers, configuring Nginx, Git, and basic CI/CD pipelines.
- Implemented Firebase push notifications for both the mobile application and admin dashboard.
- Implemented Firebase Cloud Messaging (FCM) push notifications across web and mobile platforms.
- Technologies: PHP, Laravel, MySQL, Vue.js, Nuxt.js, JavaScript, Node.js, Express.js, Firebase, Git.

PHP Developer | 04/2021 – 07/2023

Smart Management IT Solutions (SMIT) - Qatar

Main activities and responsibilities:

- Helped decompose the WallPost ERP monolith into modular components by isolating related functionality, reducing cross-module dependencies, and defining clear interfaces for module communication.
- Contributed to the incremental migration of ERP modules into standalone Laravel Lumen services using a Strangler Fig approach, developing service APIs and integrating them with the existing Vue.js frontend.
- Led the end-to-end integration of new features from Jira requirements and UI designs, designing and implementing RESTful APIs, translating designs into reusable Vue.js components, and integrating the frontend with backend services.
- Provided technical support and fixed issues across both frontend and backend for various ERP modules.
- Participated in sprint planning, daily Scrum meetings, and task tracking using Jira.
- Technologies: PHP, Laravel, Lumen, MySQL, Vue.js, JavaScript, Git, AWS CodeCommit, Jira.

Software Engineer | 01/2021 – 03/2021

Aldana Computer Technology - UAE

Main activities and responsibilities:

- Refactored existing ERP code for the HR Module, optimizing performance and improving the user experience.
- Delivered feature enhancements and technical support for ERP software users, collaborating with the development team on upgrades and creating new projects.
- Technologies used: PHP, Laravel, Ajax, jQuery, MySQL, Git, JavaScript, CSS3, HTML5, Bootstrap.

Software Engineer | 02/2017 – 04/2021

National Information Center - SUDAN

Main activities and responsibilities:

- Developed the official Sudan Internet Exchange Point (SIXP) portal and built a custom government CMS.
- Delivered web development training to 50+ government employees, improving their ability to maintain and support internal systems.
- Led the management and optimization of the SLCO examination system, improving business processes and functionality.
- Technologies used: PHP, Laravel, Ajax, jQuery, MySQL, Git, JavaScript, HTML, CSS.

EDUCATION

Bachelor's Degree with Honors in Information Systems | Jun 2010 – Jun 2014
Omdurman Islamic University, Sudan.

SKILLS

Backend

- PHP 8, Laravel, Lumen
- RESTful API Design
- API Authentication: Sanctum, JWT, WebAuthn
- Laravel Queues & Jobs
- RabbitMQ
- Node.js, Express.js

Frontend

- Vue.js
- Nuxt.js
- JavaScript
- Pinia
- HTML5, CSS3
- Bootstrap

Databases

- MySQL
- MongoDB
- Redis
- Database Design
- Query Optimization
- Indexing
- Caching

Architecture

- SOLID Principles
- Design Patterns
- Service Layer
- Repository Pattern
- Microservices Fundamentals
- Event-Driven Architecture
- WebSockets / Laravel Reverb

DevOps

- Git
- GitHub Actions (CI/CD)
- Linux
- Nginx
- VPS Deployment
- Swagger
- Docker

Testing

- PHPUnit (Unit & Integration testing)

LANGUAGES

- Arabic: Native

English: Proficient