

ALIREZA TOLOUEI

Senior Software Engineer

Phone: (+98) 912-095-2193

Location: Tehran, Iran

Email: alitolouei.1997@gmail.com

GitHub: <https://github.com/mrtolouei>

Portfolio: <https://mrtolouei.ir>

SUMMARY

Senior Software Engineer with extensive experience designing, building, and scaling complex, business-critical systems. Specialized in **PHP & Laravel**, with strong expertise in **MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch, Docker, and RabbitMQ**. Experienced in developing marketplace platforms, real estate contract management systems, web-based accounting software, and automotive sales & after-sales solutions. Strong background in system design, DDD, modular monolithic and microservices architectures, with a focus on clean, maintainable code and scalable, production-ready systems.

Tech Stacks

Languages and Frameworks

- PHP
- Laravel

Databases

- MySQL
- PostgreSQL
- Database Design and Optimization
- Indexing and Query Performance Tuning
- Transactions and Data Consistency

Caching and Messaging

- Redis (Cache, Rate limit, Sessions)
- RabbitMQ (Asynchronous Processing, Message Queues, Event-Driven system)

Search and Data Processing

- Elasticsearch (Full-text Search, Indexing, Performance Optimization)

System Design

- Design Patterns (Factory, Facade, Strategy, Decorator, Proxy, Chain of Responsibility, Builder, Adapter)
- Domain-Driven Design (DDD)
- Monolithic Modular
- MicroService
- SAGA
- CQRS
- Circuit Breaker
- SOLID and Clean Code Principles

DevOps and Performance

- Docker
- CI/CD Concepts
- Logging and Monitoring (Graphana, Sentry, Telescope)
- Deployment and Release strategy

EXPERIENCES

Senior Software Engineer

Arian Capital (LAMARI) - Tehran

March 2025 - Present

Automotive Sales and After-Sales industry

- Design and development of a high-performance vehicle sales platform built with **Laravel, PostgreSQL, Redis, and Docker**, engineered to handle high traffic with a strong focus on speed, reliability, and scalability.
Significantly improved system performance compared to the legacy platform through advanced **query optimization, strategic indexing, and database performance tuning**.
Architected seamless integration with enterprise **ERP systems using RabbitMQ**, enabling reliable, asynchronous, and fault-tolerant communication between core business systems.
Unified multiple fragmented sales systems into a **single comprehensive platform**, improving operational efficiency, data consistency, and maintainability.
- Designed and developed a robust **After-Sales Service Management System** using **Laravel, MySQL, Redis, and Docker**, ensuring optimized database structure and high responsiveness under operational load.
Implemented scalable database designs with performance-first architecture, focusing on clean structure, maintainability, and long-term system growth.
Contributed to architectural decisions, containerized deployments, and production-grade system stability across sales and after-sales domains.

Software Engineer

Banino - Tehran

Jun 2024 - March 2025

Digital Marketplace (Laptop, Mobile and Electronics)

- Designed and implemented a high-performance **marketplace e-commerce platform** using **Laravel, PostgreSQL, Redis, Docker, and Elasticsearch**, built to support multi-vendor operations at scale.
Architected and optimized database structure with a strong focus on **performance, indexing strategies, and query optimization** to ensure fast product search, filtering, and transaction processing.
Integrated **Elasticsearch** to deliver advanced, high-speed search capabilities across large product catalogs.
Developed and maintained core business modules including **Sales, Inventory Management, Payments & Settlements, and Vendor Panel**, enabling seamless multi-vendor operations.
Implemented CI/CD pipelines to streamline deployment workflows and improve release reliability.
Focused on building a scalable, modular architecture with emphasis on clean code, maintainability, and production-grade performance.

Backend Developer

Keraseh - Tehran

March 2023 - Jun 2024

Online Financial and Accounting Solutions

- Developed a web-based accounting platform using **Laravel, MySQL, Redis, Docker, and CI/CD**, focused on reliability and performance.
- Designed and optimized database architecture with emphasis on query performance and financial data integrity.
- Implemented core business modules including **Accounting, Inventory Management (stock in/out, transfers, audits), Commercial Operations (sales/purchase invoices, pre-orders), and Treasury (receipts, payments)**.
- Contributed to scalable, modular system architecture tailored for financial operations and business process automation.

Backend Developer

ESRA - Qom

May 2021 - March 2023

Research Organization

- Contributed to the development of **online learning and digital library platforms** using Laravel, MySQL, Redis, Docker, and Elasticsearch.
- Collaborated on **ERP system** implementation and enterprise-level integrations. Focused on scalable architecture, search optimization, and system reliability.

Backend Developer

Arnikaware - Qom

December 2019 - May 2021

Marketplace Platform

Developed marketplace e-commerce platforms using **Laravel, MySQL, Redis, and Docker**. Implemented core modules including **Sales, Inventory, Payments, Admin Panel, and Vendor Panel**. Integrated with accounting software such as **Sepidar**. Focused on modular architecture, performance, and scalable multi-vendor operations.

Projects

Online School Platform

Developed a comprehensive **school management system** including **student management, class schedules, exam planning, exam admission cards, attendance tracking, and academic calendar**. Built with a focus on usability, maintainability, and reliable performance.

Real Estate Contract Management System

Developed a **comprehensive platform for managing real estate contracts**, supporting **purchase, sale, lease, and mortgage agreements**. Implemented **commission management for agents** and **property file management**, including public-facing property listings. Enabled users to **purchase subscriptions** to create a limited number of contracts, generate, and print them directly from their dashboard.

Real Estate Listing Platform

Developed a **property classifieds platform** allowing users to **register and post real estate ads** (buy, sell, lease, rent). Enabled users to **browse and search listings** posted by others with optimized performance and responsive UI. Focused on **scalable architecture, maintainable code, and a seamless user experience.**

Education

Bachelor of Information Technology (IT)

Shahab Danesh University