Ahmed Shbat

Full-Stack Developer

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Portfolio

SUMMARY

Results-driven Full-Stack Developer and Software Engineering student with strong expertise in building high-performance, distributed backend systems. Proficient in modern web technologies including PHP/Laravel, React/js. Experienced in optimizing database performance, implementing architectural design patterns, and decoupling heavy background tasks using queue management systems to deliver robust, scalable applications.

EXPERIENCE

Medical Center Management System (Project) 03/2026 - 08/2026

- Designed and developed the core backend architecture for a comprehensive Medical Center Management System using Laravel.
- Implemented clean and maintainable code by strictly adhering to the Repository Pattern and Service-oriented logic.
- Built secure and well-structured API contracts to seamlessly manage doctor-patient data and interactions.
- Integrated Firebase to handle real-time push notifications efficiently across the system.
- Promoted high system maintainability and readability by enforcing Clean Code principles, SOLID design, and clear architectural separation.
- Architected and integrated an in-app real-time chat system, ensuring instant and seamless messaging within the application.

E-Commerce 03/2026 - 06/2026

- Developed a highly scalable and fault-tolerant distributed E-Commerce platform using Laravel 11, designed to handle intense concurrent traffic.
- Mitigated race conditions and secured data integrity under a 10000 concurrent user stress test by implementing Pessimistic and Optimistic Locking mechanisms.
- Achieved a 95% improvement in response time (from 3500ms to 150ms) by decoupling heavy billing/notification operations using asynchronous RabbitMQ queues.
- Optimized memory utilization by 93% (reducing RAM usage from 412.5MB to 28.3MB) for bulk processing tasks through Database Chunking and scheduled batch processing.
- Configured Nginx as a Load Balancer to achieve horizontal scalability across multiple distributed application servers, utilizing Redis for centralized session management.
- Enforced strict transaction separation and zero-data-loss architecture using database transactions to secure multi-step ACID operations.
- Leveraged Aspect-Oriented Programming (AOP) via custom middleware to abstract cross-cutting concerns, enabling dynamic request tracking (UUID v4) and resource profiling.
- Conducted comprehensive benchmarking and bottleneck analysis using Grafana k6, optimizing the architecture to confidently double the target system load without downtime.

EstiMeta-Ai| AI-Driven Project Estimation & Analytics Platform

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scoping, and metadata analysis.

Integrated advanced AI capabilities to parse project requirements, predict development timelines, and optimize resource allocation.

Built a responsive interface with rich visual elements, enabling seamless team collaboration and dynamic reporting. Tech

Stack: React, Tailwind CSS, Tanstack Query, Redux Toolkit, Laravel, RESTful APIs, Google AI Studio API.

Visual Automation Builder & AI Chatbot Agent ↗

Visual Automation Builder & AI Chatbot Agent

orchestrate workflows using drag-and-drop functional nodes (Log and Color actions).

Implemented a dynamic graph rendering canvas using React Flow to handle complex node connections, state management, and real

time execution tracking with a live output console.

Built a scalable backend repository to save and version control custom workflows, database schemas, and automation execution logs.

Integrated an AI Chatbot Agent utilizing custom tool calling to interpret natural language commands (e.g., "Run 'Daily Report'

automation"), programmatically triggering and executing workflows via RESTful APIs.

Tech Stack: React, Tailwind CSS, Redux Toolkit, React Flow,Laravel, MySQL, Google AI Studio API.

EDUCATION

Software Engineering — 2022 - Present
Damascus University - Faculty of Information Engineering

SKILLS

- PHP / Laravel
- RESTful APIs
- Database Design & Optimization (SQL)
- HTML/ CSS
- JavaScript (JS)
- React.js
- Git / GitHub
- Team Collaboration
- Problem Solving

LANGUAGES

Arabic — Native

English — Intermediate