# Muhammad Waqas Majeed

Software Developer

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## Skills

**Languages:** PHP, Go, TypeScript, JavaScript, SQL    **Frameworks:** Laravel, Next.js 16, React 19, Livewire, Zustand
**Infrastructure:** AWS, Docker, Kubernetes, Redis, Elasticsearch, MySQL, PostgreSQL, Protocol Buffers, CI/CD

## Experience

**EWAA Hotels (Al Muhaideb Investment Group)**   Jan 2025 – Present
*Software Developer*   *Riyadh, Saudi Arabia*

- Architected multi-tenant hotel booking platform (**Clean Architecture**: 4 layers) processing reservations across **110+ properties** with 99.9% uptime, tenant-isolated data at database level
- Built **Next.js 16 + React 19** frontend with TypeScript, **Zustand**, **Framer Motion**, and custom localization service that loads fonts, weights, and RTL/LTR direction atomically without hydration mismatch
- Integrated **12+ MENA payment gateways** with **loyalty system** (tiers, points, free nights), increasing success rate by 35%
- Reduced API payloads by **40-60%** using Protocol Buffers with content negotiation; mobile load times 2.5s to <1s
- Designed composable search using **Specification Pattern**—new filters added as pipes without modifying existing code. Swappable backends (MySQL, ES, Algolia) via strategy injection
- Implemented **Saga Pattern** (choreography-based) for distributed transactions; **Mutex Pattern** prevents checkout races
- Built **event-driven booking flow** with SSE real-time streaming, domain events for notifications/inventory/analytics. Secure ID transformation. **PHPStan L9** across 50K+ LOC

**DT Modern Technology**   Jan 2022 – Dec 2024
*Software Developer*   *Lahore, Pakistan*

- Worked and managed **8+ products** (ride scheduling, service bookings, delivery tracking) serving 100K+ users
- Built WebSocket systems with <100ms latency at 10K concurrent. Led Agile sprints, shipping **20% faster**

**Freelance**   Aug 2018 – Apr 2022
*Web Developer*   *Remote*

- Completed **100+ projects**: dashboards, API integrations, web apps with 95%+ client satisfaction

## Projects

**StudentBot AI Platform** — PHP, Laravel, OpenAI API, Anthropic API, Stable Diffusion, Redis

- Multi-model AI SaaS with RAG knowledge base, vector embeddings, voice cloning. 15+ payment gateways.

**Lux Dashboard** — PHP, Laravel 11, Laravel Reverb, GraphQL, WebSockets

- Unified inbox (Facebook, Instagram, WhatsApp, Email) with real-time WebSocket messaging.

**Tap to Connect** — PHP, Laravel, React, TypeScript, Tailwind CSS

- NFC-enabled biolink platform with click analytics, custom domains, retargeting pixels.

## Open Source

**TapPay Laravel SDK** — Packagist — PHP 8.2+, Laravel 10/11/12, PHPStan L9

- **11 service facades** (charges, refunds, invoices, subscriptions, merchants, payouts). **Marketplace payment splits** for multi-vendor. Bulk export, idempotency keys, open redirect protection.

**Ordain Delegation** — Packagist — Extends spatie/laravel-permission — PHPStan L9

- Solves "What can user **GRANT**?" **Prevents privilege escalation**—users delegate only subsets of own permissions. Hierarchical management, creation quotas, type-safe DelegationScope value objects.

**Laravel HMAC Auth** — Packagist — PHP 8.3+, Laravel 11/12, Redis

- HMAC API auth with **timing-safe signature comparison**, replay attack prevention, progressive rate limiting, multi-tenant keys.

## Education

**The Islamia University of Bahawalpur**   2018 – 2022
*Bachelor of Science in Computer Science*   *Pakistan*