

# SADIQ ALI KHAN

Senior Full-Stack Software Engineer | Core PHP, Symfony, Laravel & WordPress | AWS & MySQL

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## PROFESSIONAL SUMMARY

Senior Full-Stack & Backend Software Engineer with 5+ years of experience engineering high-scale, multi-tenant ERP and SaaS platforms using Core PHP (8.x/7.x), Symfony, Laravel, and WordPress development. Core contributor to Symfony (25+ merged PRs) and contributor to Google's official PHP API client (PR #2726). Proven track record architecting high-throughput RESTful and GraphQL API layers (~10M requests/month), authoring typed developer SDKs, optimizing MySQL/PostgreSQL queries & B+Tree indexes, and spearheading AWS Cost Optimization and async background worker architectures.

## TECHNICAL SKILLS

- **Backend & Frameworks:** Core PHP (8.x/7.x), Laravel (Queues, Jobs, Migrations, Eloquent), Symfony (MVC), WordPress Development, Plugin Development (Custom Plugins & Themes, Hooks/Filters, REST API), OOP, RESTful API Design, GraphQL, Guzzle/cURL, JSON, OpenAPI/Swagger
- **Cloud, DevOps & Linux:** AWS (EC2, S3, RDS, CloudWatch, WAF), AWS Cost Optimization (Rightsizing, Reserved Instances, S3 Lifecycle Policies), Docker, Linux Administration, Background Workers (Supervisor, Cron), CI/CD (GitHub Actions), Nginx
- **Databases & Caching:** MySQL (Query Optimization, B+Tree Indexing, EXPLAIN tuning), PostgreSQL, Redis (Queues, Distributed Locks), Doctrine ORM
- **Architecture & Security:** Domain-Driven Design (DDD), SOLID, Multi-Tenant Architecture, Microservices, Async Processing, Idempotent APIs, SSRF Prevention
- **Testing & Observability:** PHPUnit, Pest, Jest, TDD, Static Analysis (PHPStan Level 8), Sentry (Root-Cause Analysis), Git, GitHub, Jira, Webhook Integrations
- **CMS & Frontend:** WordPress Plugin Development (Custom Post Types, Hooks & Filters, Shortcodes, REST API), React, TypeScript, Tailwind CSS, SuiteCRM, WebSockets

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer | Qbil Software (Remote, Netherlands)

Jul 2021 – Present

*Qbil-Trade: Multi-tenant commodity trading & logistics ERP (Core PHP 8, Symfony, Laravel Patterns, GraphQL, REST, MySQL, Redis, AWS, Docker)*

- Architect and maintain the core API ecosystem (GraphQL + RESTful APIs, ~10M requests/month) for **40 enterprise tenants** from a unified codebase, ensuring strict multi-tenant data isolation, zero-fork customizability, and 99.9% uptime.
- Engineered and shipped the public Qbil PHP SDK (PHP 8.1+, Stainless-generated) and developer documentation (**developers.qbiltrade.com**), providing typed, named-parameter integration with structured exception handling.
- Optimized MySQL database design, complex joins, and B+Tree indexing across high-volume trade tables, slashing p95 query latency and eliminating table locks.
- Designed asynchronous background workers and message queues using **Redis, Supervisor, and cron** for contract execution, automated PDF invoice generation, and third-party webhook dispatching.
- Modeled complex trade lifecycle domains (contracts, logistics, invoicing, inventory) leveraging **Domain-Driven Design (DDD)**, **OOP**, and **SOLID** principles, shipping cross-stack features on 2-week release cadences.
- Raised regression test coverage to ~**70%** introducing TDD workflows with **PHPUnit and Pest**, adversarial PR reviews, and AI-assisted test suite generation against real network and persistence states.
- Spearheaded production incident management across **Sentry, Jira, and Zendesk**; conducted root-cause analyses (RCA) on critical issues and cut recurring release-related defects.
- Containerized application stack with **Docker**; automated CI/CD pipelines; drove **AWS Cost Optimization** (EC2/RDS rightsizing, S3 lifecycle policies, Savings Plans) cutting cloud infrastructure spend by 25%.
- Mentored 4+ engineers through code reviews, establishing team guidelines for feature branching, atomic commits, Jira-linked pull requests, and automated testing.

### Full Stack Developer | ICloudEMS (India)

Apr 2021 – Jul 2021

*Student-Centric Higher-Education ERP (Core PHP, MVC, MySQL, REST APIs, JavaScript)*

- Built and shipped backend RESTful APIs using Core PHP and MySQL with OOP & MVC architecture; engineered responsive React/JavaScript UI components for university clients; configured Linux cloud servers and automated staging deployments.

## OPEN SOURCE CONTRIBUTIONS & TECHNICAL PROJECTS

- **Google API PHP Client** (googleapis/google-api-php-client – 9.8k stars): Diagnosed and merged fix in v2.20.1 matching batch response parts by Content-ID instead of position, preventing response decoding errors into mismatched model classes (PR #2726).
- **Symfony Core Contributor** (symfony/symfony – 25+ merged PRs): Active contributor to Symfony Console and Terminal UI; fixed rendering bottlenecks, input sanitization, timer-drift, and multi-byte Unicode/emoji width calculations with full PHPUnit regression tests.
- **NativePHP for Symfony** (Author & Maintainer | Packagist): Ported Electron desktop and mobile runtimes to Symfony with 1,170+ automated tests; published on Packagist with 11 upstream patches (4 merged).
- **WordPress & High-Scale API Patterns:** Engineered custom WordPress plugins and API bridges (custom post types, REST endpoints, webhooks) alongside reference architectures for idempotent requests, Redis locks, and rate limiters.

## EDUCATION & CERTIFICATIONS

**B.Tech in Computer Science & Engineering** • Sharda University

2017 – 2021

**Executive Certification in DevOps Engineering** • IIT Roorkee / Intellipaat

2021