MUHAMMAD HASSAAN KHAN

TEAM LEAD | SOFTWARE ENGINEER | SENIOR WEB APPLICATION DEVELOPER

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PROFESSIONAL SUMMARY

Software Engineer and Team Lead with 5+ years of experience in PHP-based web application development, technical leadership, backend architecture, API development, cloud deployment, Linux server administration, database-driven systems, and production operations. Experienced in leading development teams, managing software delivery, translating business requirements into scalable technical solutions, conducting code reviews, mentoring developers, and troubleshooting production systems. Strong hands-on expertise in PHP, Laravel, CodeIgniter, RESTful APIs, GraphQL, MySQL, MongoDB, React, JavaScript, AWS, Linux, Git, GitHub, Docker, Kubernetes, and CI/CD automation. Experienced in designing scalable application architectures, managing APIs and integrations, integrating AI and government APIs, and supporting enterprise systems across ERP, finance, logistics, education, media, and AI applications.

Experienced in end-to-end software delivery including requirements gathering, technical planning, architecture, development, testing, deployment, production maintenance, performance optimization, stakeholder collaboration, and developer leadership. Also experienced with Saudi ZATCA e-Invoicing integration and AI-enabled application development.

CORE COMPETENCIES

Technical Leadership: Team Leadership, Software Delivery Management, Development Team Management, Technical Planning, Developer Mentoring, Code Review

Architecture & Operations: System Architecture, Scalable Application Design, API Architecture, Production Operations, Server Management, Linux Administration, AWS Cloud Services

Delivery & Collaboration: Requirements Gathering, Stakeholder Management, Production Troubleshooting, Technical Documentation, Agile, Scrum, Cross-Functional Collaboration

PROFESSIONAL EXPERIENCE

FULL-STACK WEB DEVELOPER (TEAM LEAD)

Pixsa Technologies, Saudi Arabia — Remote | January 2024 – Present

- Lead the development lifecycle of enterprise web applications, translating business and stakeholder requirements into scalable PHP/Laravel architectures.
- Provide technical leadership across application planning, architecture, development, code review, debugging, deployment, production maintenance, and delivery.
- Lead developers through technical planning, implementation, code reviews, debugging sessions, architecture discussions, and development guidance.
- Design and develop PHP/Laravel backend systems, RESTful APIs, authentication flows, database operations, integrations, and complex business logic.
- Manage application deployment and production environments on Linux servers, including server configuration, application services, permissions, logs, troubleshooting, environment configuration, and release management.
- Work with AWS cloud services and Git/GitHub-based development workflows to support application delivery and production operations.
- Build and maintain CI/CD pipelines using GitHub Actions for automated builds, testing, deployment, and repeatable release workflows.
- Design modular and scalable application architectures with focus on maintainability, performance, reliability, and future growth.
- Lead integration of Saudi ZATCA e-Invoicing APIs and related government API workflows, ensuring reliable electronic data exchange and regulatory requirements.
- Collaborate with stakeholders and business teams to understand requirements, define technical solutions, communicate progress, and support delivery decisions.
- Conduct code reviews and debugging sessions while mentoring developers and maintaining development standards.
- Troubleshoot production issues involving application services, server environments, logs, permissions, configuration, integrations, and deployments.
- Coordinate release management and deployment activities while maintaining reliable production environments.

FULL-STACK WEB DEVELOPER

Antix Digital, Canada — Remote | January 2024 – Present

- Develop and oversee end-to-end delivery of web and mobile solutions across logistics, media, and product-focused applications.
- Work across backend development, frontend integration, APIs, AI services, debugging, deployment coordination, performance improvements, and production maintenance.
- Integrate AI models and services into production applications and connect backend systems with application interfaces and business workflows.
- Develop and maintain backend functionality, database-driven systems, API integrations, authentication, and business logic.
- Collaborate with clients and development teams to understand requirements and deliver technical solutions.

- Support application lifecycle activities including development, debugging, optimization, deployment coordination, and cross-platform compatibility.

FULL-STACK WEB DEVELOPER

Rsoft Technologies | January 2023 – December 2023

- Developed full-stack web applications using PHP, Laravel, JavaScript, MySQL, REST APIs, HTML, CSS, and modern web development practices.
- Built backend modules, database-driven functionality, API integrations, authentication, business logic, and responsive user interfaces.
- Worked across application development, debugging, optimization, deployment support, and production maintenance. • Collaborated with clients and development teams throughout the software development lifecycle.

TECHNICAL SKILLS

Programming & Backend: PHP, Laravel, CodeIgniter, CakePHP, WordPress, OOP, MVC Architecture, Backend Architecture, Business Logic, Authentication, Authorization, Validation, Error Handling, Application Optimization

API Development & Integration: RESTful APIs, REST API Architecture, Developer-Facing APIs, API Authentication, JSON, XML, Third-Party API Integration, AI Integration, Government API Integration, Webhooks, API Testing, API Troubleshooting, GraphQL

Frontend: JavaScript ES6+, React, HTML5, CSS3, Bootstrap, Tailwind CSS, AJAX, Responsive Web Interfaces, Frontend-Backend Integration

Databases: MySQL, MongoDB, SQL, Database Design, Relational Data Modeling, Queries, Joins, Indexing, Data Validation, Database Optimization, JSON, XML

Cloud & Infrastructure: AWS, Linux Administration, Server Configuration, Application Deployment, Production Troubleshooting, Logs, Permissions, Environment Configuration

DevOps & Containerization: Docker, Kubernetes, Git, GitHub, GitHub Actions, CI/CD Pipelines, Automated Builds, Automated Deployment, Release Workflows, Deployment Automation, Version Control

Architecture & Engineering: System Architecture, Microservices Architecture, Scalable Application Design, Modular Development, Code Review, Debugging, Performance Optimization, Maintainability, Technical Documentation

Enterprise & Compliance: Saudi ZATCA E-Invoicing Integration, Government API Integration, Regulatory API Workflows, Electronic Invoicing Data Exchange

Tools & Platforms: Composer, WordPress, GitHub, REST API Tooling

Leadership & Methodology: Team Leadership, Team Mentorship, Developer Guidance, Code Reviews, Agile, Scrum, Requirements Analysis, Stakeholder Management, Technical Planning, Cross-Functional Collaboration, AI-Enabled Development Workflows

SELECTED PROJECTS

PIXSA ERP — ENTERPRISE RESOURCE PLANNING SYSTEM

Lead & Developer

- Engineered and scaled a comprehensive ERP system with modular solutions covering Finance, Inventory, HR, and Sales.
- Designed system architecture and developed scalable modules supporting multiple business functions.

FINANCE MANAGEMENT — ACCOUNTANT APP

Lead & Developer

- Led the architecture of a high-performance finance management platform.
- Developed automated tax calculation engines and real-time reporting functionality.

LOGISTICS — FLEET MANAGEMENT SYSTEM

Developer

- Architected the full-stack logistics solution.
- Personally developed core routing algorithms and tracking modules.
- Managed the delivery timeline and technical implementation.

EDTECH — SCHOOL MANAGEMENT SYSTEM

Lead & Developer

- Directed end-to-end delivery of a school management platform.
- Gathered client requirements and designed the complete architecture.
- Built student and staff management portals from scratch.

CCTV MONITORING SYSTEM — ENVIZ AI LAB

Lead & Developer

- Built a custom AI-powered CCTV monitoring system.
- Integrated face detection, motion tracking, and real-time security alerts.

AI VISION SOLUTION — LIVE STREAM OBJECT AND BRAND DETECTION

Developer

- Developed real-time computer vision pipelines for detecting objects and specific brand logos within live video streams.
- Supported analytics and compliance use cases.

AUDIO AI SOLUTION — LIVE STREAM SPEECH DETECTION

Lead & Developer

- Engineered an automated speech recognition system for live streams.
- Implemented real-time keyword spotting and content monitoring.

MEDIA AI — METADATA ENRICHMENT

Developer

- Architected a backend service that automatically generates rich metadata for video archives.
- Improved searchability and content categorization through automated metadata generation.

AI COMPLIANCE TOOL — ADS DETECTION

Developer

- Built an intelligent detection system for identifying and timestamping commercial breaks and advertisement placements within video content.
- Supported automated reporting workflows.

NATIVE MOBILE APP — IOS APPLICATION

Developer / Technical Reviewer

- Managed the mobile product lifecycle.
- Developed native iOS features using Swift.
- Conducted code reviews focused on application performance and stability.

EDUCATION

BACHELOR OF COMPUTER SCIENCE — Shah Abdul Latif University | 2022 – 2026 | Khairpur, Pakistan **ADVANCED DIPLOMA IN SOFTWARE ENGINEERING (ADSE)** — Aptech | 2022 – 2025 | Malaysia

CERTIFICATION

WEBSITE DEVELOPMENT — IBA Sukkur University | Comprehensive training in HTML, CSS, Bootstrap, PHP, and MySQL.