

TAYYEB IQBAL

Senior Full-Stack Engineer | Backend Engineer | Technical Lead

Lahore, Pakistan | Remote / International

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PROFESSIONAL SUMMARY

Solutions-focused Senior Full-Stack Engineer and Technical Lead with 6+ years of experience architecting and delivering scalable SaaS, ERP, AI-enabled, logistics, healthcare, e-commerce, FinTech, and real-time platforms. Strong expertise in Node.js, NestJS, Express.js, Laravel, Next.js, Python, REST APIs, database architecture, cloud deployment, and distributed systems. Experienced in translating complex business requirements into secure, modular, scalable, and production-ready software solutions.

- **Highly experienced in leading diverse projects** from technical discovery and solution architecture through sprint execution, code review, infrastructure deployment, and post-release optimization.
 - **Effective at coordinating backend**, frontend, mobile, QA, and DevOps teams while remaining actively involved in system design, API development, performance engineering, and production troubleshooting.
 - **Delivered complex products involving** generative AI, OCR/document processing, 3D product configuration, cybersecurity, healthcare, subscription billing, e-commerce, FinTech, and international logistics.
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AREAS OF STRENGTH

- Backend & Full-Stack Architecture, Scalable System Design, SaaS Product Engineering, REST API Design & Integration
 - Microservices Architecture, Event-Driven & Asynchronous Processing, Database Design & Optimization
 - Authorization & RBAC, Real-Time Application Development, Cloud & Containerized Deployment, CI/CD Automation
 - Code Review & Engineering Standards, Application Performance Optimization, Technical Estimation
 - Technical Leadership, Cross-Functional Team Coordination, Client Requirements & Solution Design, Production Release Management
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TECHNICAL SKILLS

Backend Development: Node.js, NestJS, Express.js, TypeScript, PHP, Laravel

Frontend Development: React.js, Next.js, JavaScript, Redux

Additional Backend Experience: Python, Django, FastAPI

Architecture & APIs: Backend Systems, Microservices, REST APIs, Modular Architecture, Third-Party Integrations

Security: JWT, OAuth, Role-Based Access Control, Authentication, Authorization, Secure API Design

Databases: MySQL, PostgreSQL, SQL Server, MongoDB, Schema Design, Query Optimization, Data Modeling

Cloud & DevOps: AWS, Docker, Linux Servers, CI/CD, GitHub Actions, Application Deployment & Configuration

AI & Specialized Integrations: OpenAI GPT-4, Generative AI, OCR Processing, WebRTC, Stripe, PayPal, Firebase, GLB 3D Models

Development Tools: Git, GitLab, GitHub, Postman, Jira, Visual Studio Code

Methodologies: Agile, Scrum, Sprint Planning, Technical Estimation, Testing, Debugging, Performance Tuning

PROFESSIONAL EXPERIENCE

KODEX TECHNOLOGIES — Lahore, Pakistan

Senior Full-Stack Engineer & Technical Lead | July 2022 – Present

Lead backend architecture, full-stack engineering, and technical delivery for SaaS, AI-powered, logistics, healthcare, and real-time software products. Act as a primary technical point of contact for system architecture, application design, technology selection, data modeling, integration strategy, and implementation planning across multiple client engagements.

- Oversaw technical discovery and requirements-analysis sessions, converting business goals and operational workflows into modular architectures, development roadmaps, technical specifications, and executable engineering tasks.
- Architected production-grade backend systems using Node.js, NestJS, Express.js, Laravel, and Python by incorporating REST APIs, secure authentication, role-based access, asynchronous processing, and third-party integrations.
- Designed and implemented backend services, REST APIs, database schemas, integrations, and business workflows across multiple SaaS and client-facing applications.
- Integrated third-party services and specialized technologies including AI/LLM APIs, OCR processing, payment platforms, real-time communication, and external business systems.
- Directed sprint planning, technical estimation, task allocation, and delivery coordination across backend, frontend, mobile, QA, design, and DevOps functions.
- Translated product requirements into structured components and implementation phases, enabling teams to execute work with clarity, consistency, and predictability.
- Conducted architecture reviews, code reviews, database-query analysis, and performance audits to improve application scalability, reliability, security, and maintainability.
- Managed AWS, Linux, and Docker-based deployments, including environment configuration, release preparation, production troubleshooting, and deployment validation.
- Implemented CI/CD workflows using GitHub Actions to improve release consistency, reduce manual deployment steps, and support more efficient product delivery.

EBIZ LOGICS — Lahore, Pakistan

PHP Web Developer | June 2020 – July 2022

Developed diverse web applications for client projects and contributed across backend engineering, API integration, database optimization, testing, deployment, and production support.

- Built and maintained PHP and Laravel applications, including reusable backend components, application workflows, database functionality, and client-specific features.
 - Designed, developed, and integrated RESTful APIs and third-party services to extend platform capabilities and enable reliable communication between systems.
 - Improved application responsiveness by optimizing SQL queries, database interactions, backend logic, and frequently used application processes.
 - Collaborated with frontend developers, designers, QA professionals, and project stakeholders to coordinate requirements, resolve dependencies, and deliver features successfully.
 - Supported application deployments, Linux server configuration, environment setup, and routine DevOps activities to maintain reliable release processes.
 - Applied clean, reusable, and maintainable coding practices throughout the software development lifecycle.
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SELECTED PROJECTS

AURORA — AI-Powered Contract Negotiation Platform

Tech Stack: *NestJS, Next.js, Node.js, OpenAI GPT-4, OCR, REST APIs, Stripe*

- Architected an AI-powered platform that processes PDF and spreadsheet contracts through OCR and uses GPT-4 to generate tone-sensitive negotiation strategies.
- Built backend workflows for document analysis, behavioral tracking, and role-based dashboards for administrators and viewers.
- Integrated Stripe subscription and presale billing, including leading backend delivery for secure healthcare-contract workflows.

AMINPAY — FinTech Bill Payment & Mobile Top-Up Platform

Tech Stack: *Node.js, NestJS, Next.js, Microservices, REST APIs, OAuth, JWT, Stripe, PayPal*

- Developed a FinTech platform for utility bill payments and mobile top-ups, supporting agent, merchant, enterprise, customer, and administrative workflows.
- Built Node.js/NestJS backend services and Next.js functionality with modular microservices, mobile APIs, and secure OAuth/JWT authentication.
- Integrated Firebase OTP, push notifications, deep links, Stripe, PayPal, and WhatsApp-based transaction workflows.

TANGIBLE — AI-Enabled 3D Shoe Customization Platform

Tech Stack: *Node.js, NestJS, Next.js, AI/Generative AI, GLB 3D Models, REST APIs, PostgreSQL*

- Designed a scalable 3D customization engine combining GLB model layers, materials, colors, and configurable product options.
- Established manufacturing rules that prevent incompatible selections and asynchronous pipelines for data-intensive processing.

- Coordinated design and engineering teams while optimizing the platform for concurrent users and responsive 3D previews.

FOXTCON — Service Business Operations Platform

Tech Stack: *NestJS, Next.js, Node.js, REST APIs, PostgreSQL*

- Built backend and full-stack functionality for a service-business platform covering scheduling, geofenced time tracking, tasks, housekeeping, maintenance, guest requests, and daily work checklists.
- Developed NestJS REST APIs and business workflows supporting FoxtINN Core across web and mobile, including employee scheduling, time tracking, housekeeping, maintenance, and guest QR requests.
- Contributed to AI-enabled capabilities including the Lala virtual manager and integrated scalable backend services for core platform operations.

DOCTOR7 — Healthcare Administration Platform

Tech Stack: *NestJS, Next.js, Node.js, AI, REST APIs, PostgreSQL*

- Contributed to a secure administrative platform supporting healthcare-related operational and account-management workflows.
- Built authentication, role-based access, structured backend processes, and administrative controls for controlled system access.

SHIPPELLO BAHAMAS — International Logistics & Freight Platform

Tech Stack: *Laravel, Node.js, NestJS, REST APIs, PostgreSQL, AWS*

- Developed a multi-role logistics platform supporting customers, drivers, warehouses, optimizer, parcels and administrative teams.
- Built shipment tracking, notifications, invoicing, mobile APIs, dashboards, and international freight workflows.

KOZMO — AI-Powered Grocery Aggregation & Comparison Platform

Tech Stack: *Laravel, PHP, MySQL, OpenAI, REST APIs, JavaScript, Google Maps APIs*

- Built a multi-retailer grocery platform integrating products, pricing, discounts, and inventory data from multiple retailers.
- Designed normalized product and retailer data models with AI-assisted duplicate detection and product matching using OpenAI.
- Developed catalog ingestion, product-size normalization, and resumable AI merging workflows with progress tracking.
- Built cart optimization workflows for price comparison, discounts, delivery fees, store consolidation, and product substitutions.
- Developed authenticated customer APIs and admin tools for catalog management, AI operations, carts, orders, and product merging.

EDUCATION

Bachelor of Science in Computer Science

University of Sargodha | 2019

