

MUHAMMAD UZAIR NISAR

Technical Team Lead

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PROFESSIONAL SUMMARY

Senior Software Engineer with 5+ years of experience architecting and delivering full-stack enterprise systems, currently serving as Lead Software Engineer leading feature ownership across web platforms for a US-based fintech startup. Proven track record leading cross-functional delivery on large-scale digital transformation initiatives (ERP, LMS, SIMS) for institutional clients, designing scalable system architecture, building RESTful APIs and integrations, and mentoring junior engineers through hands-on collaboration. Strong foundation in modern frontend/backend stacks (React, Next.js, Node.js, Python, .NET), cloud-deployed services, and database design, with growing exposure to AI-assisted development workflows. Published IEEE researcher in automated systems design, bringing a rigorous, research-driven approach to engineering problems. Seeking to apply proven technical leadership and architectural ownership to a Principal Software Engineer / Team Lead role, with active investment in deepening hands-on LLM, RAG, and AI-agent engineering expertise.

CORE COMPETENCIES

Technical Leadership & Mentoring • System Design & Software Architecture • Microservices & API Development • Cross-Functional Project Ownership • Enterprise Application Development • Full-Stack Engineering (React/Next.js/Node.js/.NET) • Database Design (PostgreSQL, MongoDB, MySQL) • Cloud-Deployed Systems • Agile/Scrum Delivery • Code Review & Quality Ownership • AI-Assisted Development Workflows

WORK EXPERIENCE

Technical Team Lead — Biafo Tech Pvt. Ltd., Pakistan *Jan 2024 – Present*

- Lead end-to-end development of full-stack web applications, owning architectural decisions across frontend and backend layers to ensure scalability, maintainability, and performance.
- Drive feature delivery from requirements through deployment, partnering with product and design stakeholders to translate business needs into technical specifications.
- Architect and implement performance and reliability improvements, reducing technical debt and strengthening system resilience for production workloads.
- Mentor junior engineers on code quality, architecture patterns, and best practices through hands-on collaboration and review.
- Evaluate and integrate AI-assisted development tools (e.g., GitHub Copilot-based workflows) into the team's engineering process to improve code review velocity and consistency.

Sr Software Engineer — Biafo Tech Pvt. Ltd., Pakistan *Jan 2023 – Dec 2023*

- Built and maintained production MERN stack applications, optimizing frontend rendering performance and backend response times for client-facing systems.
- Designed and implemented RESTful APIs supporting multiple concurrent client projects, ensuring consistent contracts across services.
- Collaborated directly with clients and internal teams to scope features, troubleshoot production issues, and ship iterative releases.

Junior Software Engineer — Biafo Tech Pvt. Ltd., Pakistan *April 2021 – Dec 2022*

- Developed and maintained features for production web applications, gaining hands-on experience across the full development lifecycle.
- Assisted in building and testing RESTful APIs and frontend components under the guidance of senior engineers.
- Participated in code reviews and debugging sessions, building a strong foundation in software engineering best practices.

KEY PROJECTS & TECHNICAL LEADERSHIP

PCSIR Digital Transformation & Automation System — Enterprise / Government

- Led a cross-functional engineering team to deliver a large-scale digital transformation initiative for a national research institution, owning architecture and delivery milestones end-to-end.
- Architected and implemented core enterprise systems including ERP, LMS, and SIMS, integrating disparate organizational modules into a unified platform.
- Drove end-to-end process automation and workflow centralization, materially improving operational efficiency and institutional governance.
- Introduced AI-assisted document and data-entry automation to reduce manual processing time across LMS and SIMS modules, cutting repetitive administrative workload.

BZU Examination & Results System — Bahauddin Zakariya University

- Designed and built a web-based platform digitizing examination operations for a major public university, serving students and exam staff at scale.
- Enabled self-service access to roll number slips, date sheets, and results, removing manual processing bottlenecks for administrative staff.
- Delivered tooling for exam staff to manage student records and publish results efficiently and accurately.
- Implemented AI-assisted anomaly detection to flag irregular result patterns and potential data-entry errors before publication, improving result accuracy.

Worklog — Time Tracking & Productivity Management Platform

- Architected a multi-platform system (web, desktop, and admin) enabling organizations to track employee work hours, tasks, and team-level productivity.
- Built a comprehensive admin panel for employee management, activity monitoring, and automated reporting, improving organizational accountability.
- Integrated AI-driven productivity insights to surface workload trends and flag potential burnout risk, enabling proactive team management decisions.

Green Basket — Fresh Grocery Delivery Mobile App

- Built a consumer-facing mobile application enabling end-to-end grocery ordering and delivery, from product browsing through checkout.
- Designed a cloud-backed data layer for inventory, order, and user management, ensuring reliable performance under concurrent usage.

UOL Admission System — University of Lahore

- Built a full digital admissions platform covering online registration, document upload, application tracking, and status communication.
- Delivered an integrated admin panel for application review, document verification, and decision workflows, replacing manual paper-based processing.

UOL GymXS — Membership & Activity Management System

- Designed a gym management system covering attendance tracking, subscription management, and member performance monitoring.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, C#

Frontend Technologies: React.js, Next.js, React Native, Flutter, Redux, Tailwind CSS, Material UI, Bootstrap, jQuery, HTML/CSS

Backend Technologies: Node.js, Express.js, ASP.NET Core, .NET, Python (FastAPI/Django)

Mobile Development: Flutter, React Native

Databases: PostgreSQL, MySQL, MongoDB, Firebase, Supabase

Messaging & Integration: Kafka, RabbitMQ, RESTful API Design

AI & AI-Assisted Development: GitHub Copilot (structured PR review workflows), AI-assisted coding practices — actively expanding into LLM application development, RAG pipelines, and AI agent design

Cloud & DevOps: AWS, GCP, Docker, CI/CD pipelines

Architecture & Design: System Design, Microservices, Scalable Application Architecture, API Integration

Tools & Platforms: Git, GitLab, GitHub, Postman, Thunder Client, Agile/Scrum

EDUCATION

Bachelor's in Computer Science — The University of Faisalabad (2016 – 2020)

Intermediate in Science — MAO College, Lahore (2014 – 2016)