

Usama Nawaz

Technical Lead / Staff Software Engineer

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SUMMARY

Seasoned Software Engineering Leader with over 9 years of hands-on experience across backend, frontend, infrastructure, and R&D domains. Skilled in managing end-to-end project lifecycles - from initiation to closure - ensuring delivery within agreed scope, schedule, and quality. Adept at leading cross-functional, multi-departmental teams and maintaining transparent stakeholder communication. Strong expertise in risk identification, scope change management, and issue resolution using Agile and traditional methodologies. Known for bridging technology and business strategy to deliver scalable, high-performance solutions that drive measurable impact.

EXPERIENCE

Technical Lead / Staff Software Engineer, Anonymous

(Remote), Pakistan | 06/2024 - Present

- Leading and mentoring a team of 9 developers across backend and frontend technologies, ensuring delivery quality, architectural scalability, and alignment with product goals.
- Providing technical leadership in Python, Django, FastAPI, React, and Next.js, with deep integration of AI/LLM-based solutions and third-party AI APIs.
- Architected and deployed solutions across AWS and Azure, emphasizing performance, cost optimization, and security best practices.
- Delivered AI-driven applications integrating OpenAI LLMs, Haygen, ElevenLabs, and TwelveLabs, enabling advanced content generation, media processing, and automation.
- Designed and maintained scalable backend architectures, conducted code reviews, and implemented CI/CD pipelines for continuous improvement.
- **Tech Stack:** Python, Django, FastAPI, React, Next.js, TypeScript, PostgreSQL, Supabase, Firebase, AWS (ECS, Lambda, S3), Azure (OpenAI Foundry), Docker, OpenAI API, Haygen, ElevenLabs, TwelveLabs, CI/CD Pipelines

Technical Lead / Senior Software Engineer, Decklaration

Lahore, Pakistan | 10/2021 - 06/2024

- Led a team of 15 developers (Python, Node, Angular, React, WordPress, PowerBI).
- Defined architecture and best practices for scalable client projects.
- Managed full Development Life Cycle for multiple client implementations, ensuring milestones were met across design, development, QA, and deployment.
- Coordinated with clients and internal teams for requirements gathering, risk assessment, and UAT planning.

- Delivered projects within agreed timelines through proactive issue tracking and scope management, and hands on involvement where needed.
- Maintained detailed project documentation and reporting using Jira.
- Helped Medtigo platform scale from 70k to 500k users in 10 months, providing solutions for LMS, marketplace, and 3D learning modules.
- Automated DNA report processing at Luminary Health, boosting efficiency by 15x in daily report generation.
- **Tech Stack:** Python, Node, React, Docker, Mysql, AWS

Senior Software Engineer (Team Lead), ASUS Tech

Lahore, Pakistan | 04/2019 - 10/2021

- Led delivery of Hodos, a social media analytics platform integrating Facebook, Twitter, and Instagram APIs.
- Oversaw end-to-end project execution including scope definition, sprint planning, and stakeholder reporting.
- Conducted risk reviews, handled change requests, and ensured project milestones aligned with client goals.
- Managed UAT phases and coordinated cross-departmental dependencies for successful handovers.
- Developed NLP chatbot at Voxiness using RASA for automated appointment scheduling and verification systems.
- Built frontend interfaces for a Power Company Project with data visualization using React and Highcharts.
- **Tech Stack:** Python, React, React-Native, Node, Docker, MySQL, AWS, Java

Software Engineer, Fiverivers Technologies

Lahore, Pakistan | 11/2016 - 06/2019

- Developed quality code and facilitated sprint planning based on client requirements and design specifications.
- Led unit testing and QA processes to ensure robust product performance.
- Collaborated with sales teams to align technical solutions with customer needs, contributing to enhanced sales outcomes.
- **Tech Stack:** React, Angular, Django, Flask, Java

Associate Software Engineer, i2c Inc.

Lahore, Pakistan | 12/2015 - 11/2016

- Built and optimized database queries in a high-performance banking environment, contributing to infrastructure resilience.
- Collaborated with cross-functional teams to troubleshoot issues and refine processes for optimized performance.
- **Tech Stack:** Informix, MySQL, PostgreSQL, Bash

KEY SKILLS

- **Project Management:** Project Planning & Execution (Agile / Waterfall), Scope & Change Management, Risk & Issue Tracking, User Acceptance Testing (UAT) Coordination, Stakeholder Communication & Reporting

- **Tools:** Jira, Confluence, Microsoft Office Suite
- **Programming:** Python, JavaScript, Java
- **Backend / Frontend:** Django, Flask, Node.js, React, Angular
- **Infrastructure:** Docker, CI/CD, AWS, Google Cloud, Azure
- **Leadership:** Team Management, Mentorship, Cross-Functional Collaboration, Stakeholder Engagement

KEY PROJECTS

- **AI Image Processing Platform** - Led and delivered an AI-powered image storage, processing, and similarity-matching platform using FastAPI and Firebase Auth, enabling secure, scalable, and automated visual data management.
- **Secure GPT Proxy Service** - Engineered a proxy solution to manage GPT API access via third-party clients using Azure, OpenAI, Django, and React, enabling enterprise-level governance and control.
- **AI Short Video Generation Platform** - Delivered a production-ready AI-driven short video platform within 2 months using FastAPI and AWS. Oversaw the full project lifecycle including development, QA, and deployment.
- **DNA Report Automation - Luminary Health** - Automated DNA report processing pipeline, improving efficiency by 15x. Managed delivery milestones and ensured stakeholder satisfaction.
- **Merge Music Application** - Led backend development integrating Spotify and Apple Music APIs. Managed project execution from concept to beta deployment.
- **Hodos - Social Media Analytics Platform** - Project Lead; oversaw backend delivery, data aggregation, and real-time engagement tracking.
- **Voxiness NLP Chatbot** - Delivered a smart appointment scheduling chatbot with OTP-based verification using RASA; managed delivery timelines and QA integration.
- **Medtigo Platform Scaling** - Scaled healthcare platform from 70k to 500k users by implementing LMS modules, marketplace, and 3D learning systems.
- **Client & Stakeholder Communication:** Technical Discovery, Requirement Gathering, Client Consultation, Proposal Development, Stakeholder Reporting

EDUCATION

- M.Phil in Computer Science, Punjab University College of IT, Lahore, Pakistan. (2015 – 2017)
- Bachelor's in Computer Science (BSCS), Govt. College University, Lahore, Pakistan. (2011 – 2015)