

MUHAMMAD WAQAS

SENIOR / LEAD SOFTWARE ENGINEER (BACKEND & FULL-STACK)

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PROFESSIONAL EXPERIENCE

Lead Software Engineer / Solution Architect (Hands-On), Dafi Labs Pvt. Ltd.

Lahore, Pakistan

Nov 2023 — Present

- Owned architecture and hands-on delivery of cloud-native products (Node.js, NestJS, PostgreSQL, Next.js, AWS).
- Scaled APIs and data pipelines to support 2x growth in users and data, including zero-downtime migrations.
- Shipped AI-powered hiring and finance features that reduced manual operations by 45%.
- Lowered P95 latency by 30% through caching, query optimization, and asynchronous processing.
- Cut cloud spend ~25% and accelerated feature throughput ~40% by standardizing CI/CD and right-sizing resources.

Senior / Lead Software Engineer (Remote), Crowdgen

May 2025 — Present

AI

New York, USA

- Led design of distributed backend services (Node.js, NestJS, AWS) for enterprise watermarking/provenance, handling 1M+ monthly transactions.
- Built watermarking and traceability APIs and data pipelines powering compliance and content authenticity use cases.
- Established performance budgets, rate limiting, and audit logging; improved reliability and safeguards for enterprise tenants.
- Partnered with product/design on scope and trade-offs; mentored a distributed team, lifting delivery predictability by ~40%.

Senior Software Engineer / Lead Engineer, Kryptomind LLC

Dec 2018 — Oct 2023

Lahore, Pakistan

- Led development of high-availability financial and Web3 backends using Node.js/NestJS, PostgreSQL, MongoDB, and AWS (99.9% uptime).
- Delivered production wallet and transaction platforms adopted by thousands of users worldwide.
- Built CI/CD and release automation (trunk-based, GitHub Actions), cutting deployment time ~35% and improving change reliability.
- Owned complex feature designs while remaining hands-on through code reviews, pairing, and performance tuning.

Senior Software Engineer / Team Lead, Bytepeach Solutions Pvt. Ltd.

Oct 2015 — Nov 2018

Lahore, Pakistan

- Built enterprise applications with ASP.NET MVC, C#, Node.js, and MongoDB across web and back-office domains.
- Launched school management and POS systems that remained in production for 4+ years.
- Led a small engineering team with >95% sprint target attainment through clear planning and reviews.

Software Engineer, Kavtech Solutions Pvt. Ltd.

Aug 2014 — Sept 2015

Lahore, Pakistan

- Developed REST APIs, ASP.NET MVC applications, and Windows desktop tools for internal and client use.
- Improved SQL/NoSQL performance by ~40% through indexing strategies and query profiling.
- Implemented BI and ETL jobs to enable analytics and reporting across business units.

.NET Intern, Totalsoft Pvt. Ltd.

Feb 2014 — Aug 2014

Lahore, Pakistan

- Completed a 6-month full-time internship focused on ASP.NET, C#, and SQL Server.
- Assisted in developing and maintaining web and desktop applications.

- Practiced enterprise coding standards, debugging, and version control.

PROFILE

Senior/Lead Software Engineer with 11+ years building and scaling cloud-native, backend-centric platforms across SaaS, FinTech, Web3, and AI. Hands-on architect of distributed systems with Node.js/NestJS, PostgreSQL, and AWS, delivering 99.9% uptime and services handling 1M+ monthly transactions. Track record of measurable impact: enabled 2x user growth, cut latency 30%, reduced cloud costs 25%, and shortened deployments 35% with CI/CD. Trusted partner to product and international teams; lead end-to-end delivery and mentor engineers. Open to Senior/Lead roles in Germany (EU Blue Card sponsorship).

CORE TECHNICAL SKILLS

Backend

Node.js, NestJS, C#, Python

Frontend

React, Next.js, ASP.NET MVC

Databases

PostgreSQL, MSSQL, MongoDB, MySQL, Supabase, Neon

Cloud & DevOps

AWS, Docker, EC2, ECS, Amplify, S3, Route53, CI/CD, Serverless, Linux

Architecture

Microservices, Distributed Systems, API Design, System Scalability

Blockchain (Secondary Skill)

Solidity, Web3, Ethereum, Solana, Polygon, BNB Chain, Wallets, DeFi

AI & Automation

AI-assisted development, system integrations, intelligent workflows, Claude, Cursor, Replit, V0

Tools

Git, Jira, GitHub Actions, REST, RPC, Message Queues, ClickUp

EDUCATION

University of Engineering & Technology / Garrison

2010 — 2014

University

Bachelor of Science in Computer Science (BSCS)

ADDITIONAL INFORMATION

Open to Senior Software Engineer and Lead Software Engineer roles

Open to relocation to Germany with family (EU Blue Card)

Experienced with international clients and distributed teams

LANGUAGES

English - C1 (Professional), Urdu - Native, German - A1 (Learning)