

# MUHAMMAD BILAL

## Full-Stack Engineer

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## PROFESSIONAL SUMMARY

Delivering platforms that serve millions of users and drive measurable growth for global technology companies. 6+ years designing and scaling systems with distributed architectures, event-driven microservices, serverless computing, and cloud-native infrastructure on AWS and GCP. Skilled in large-scale API ecosystems (REST, GraphQL, gRPC), LangChain, and vector databases. Proven record leading teams, delivering on schedule, and building architectures that cut costs, improve reliability, and scale worldwide.

## PROFESSIONAL EXPERIENCE

### Full-Stack Engineer & Lead Developer

**Achroweb Solutions** — Florida, USA (Remote) | Jan 2023 – Present

- Built AI-powered platforms using Next.js, Supabase, and OpenAI, reducing manual workflows by 60%.
- Developed agentic pipelines with LangGraph & FastAPI, improving automation speed by 35%.
- Led a 5-member team, delivering features ahead of deadlines with zero major defects.

### SaaS Engineer & Tech Architect

**TFTSOL** — Lahore, Pakistan (Remote) | Jan 2020 – Jan 2023

- Designed backend systems for SaaS products handling 1M+ API requests/month with 99.98% uptime.
- Designed and implemented multi-tenant architecture, enabling scalable growth to 50K+ active users.
- Optimized infrastructure, cutting hosting costs by 25%.

### Tech Strategist & UI Innovator

**Level Up Tech Studios** — Islamabad, Pakistan (Remote) | Jan 2019 – Jan 2021

- Delivered responsive, SEO-first UIs with React & TailwindCSS, increasing organic traffic by 60%.
- Integrated real-time APIs, reducing latency by 35%.

## EDUCATION & CERTIFICATIONS

**Cloud Native & Mobile Web Computing** — PIAIC | 2019 – 2022

**Certified Agentic & Robotic AI Engineer** — Panaversity | 2023 – Present

**Bachelor's in Computer Science** — GCUH | 2022 – Present

**Capstone Project** — Developed a serverless AI-driven analytics dashboard using AWS Lambda and OpenAI API.

## TECHNICAL SKILLS & EXPERTISE

**Full Stack & AI Superstack:** Next.js, TypeScript, TailwindCSS, React Server Components, PWA, SSR/ISR, micro-frontends, AI-driven UX, predictive interfaces, generative design workflows, real-time collaborative UI; Node.js, FastAPI, Supabase, Firebase, REST/GraphQL, serverless microservices, autonomous AI pipelines; AWS, GCP, Docker, Kubernetes, CI/CD, Vercel, Terraform, multi-region zero-downtime deployments, MLOps; OpenAI SDK, LangChain, LangGraph, LLM fine-tuning, RAG, generative AI, autonomous agents, predictive automation; Git, GitHub Actions, automated CI/CD workflows

## LANGUAGES

**English** — Fluent

**Urdu** — Native

**German** — Intermediate