

# MUHAMMAD BILAL

Full Stack Engineer

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## SUMMARY

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Full Stack Engineer with 8+ years shipping web applications for US clients across healthcare, cybersecurity compliance, SaaS, education, and enterprise platforms. Strong across the full stack React, Vue, Node.js (Express/NestJS), Next.js, PHP/Laravel with hands-on experience in Firebase, AWS, Docker, microservices, CI/CD, and AI/LLM integration. Experienced working in HIPAA and CMMC/NIST environments. Authorized to work in the US via H-1B sponsorship.

## TECHNICAL SKILLS

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Frontend: React, Vue.js, Next.js, Angular, TypeScript, JavaScript, Tailwind CSS, WebRTC

Backend: Node.js, Express.js, NestJS, PHP, Laravel, Python, REST APIs, Microservices

Databases: PostgreSQL, MongoDB, MySQL, Redis, PouchDB, CouchDB

Cloud & DevOps: AWS (EC2, S3, Lambda), Firebase, Docker, Kubernetes, CI/CD Pipelines, GitHub Actions

AI & Tooling: OpenAI API, LLM Integration, Claude Code, Google Classroom, Clever, QuickBooks

Compliance: HIPAA, NIST SP 800-171, CMMC

## EXPERIENCE

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iBuildsoft LLC

Full Stack Engineer

*United States (Remote)*

*Jan 2025 – Present*

**Project 1: Cybersecurity Compliance Platform (Current)** · 2025 – Present

- Built assessment workflows, scoring logic, evidence tracking, and automated compliance evaluations aligned with CMMC and NIST SP 800-171 frameworks.
- Integrated OpenAI/LLM-powered analysis to automate gap detection, compliance recommendations, and audit reporting, cutting manual review cycles significantly.
- Managed AWS infrastructure (EC2, S3, Lambda) and maintained CI/CD pipelines; enforced secure data handling and access controls across all services.
- Delivered scalable architecture improvements and optimized database operations to support growing compliance workloads.

**Project 2: School Management SaaS School Chain Texas** · 2025

- Developed LMS, finance, and cafeteria management modules for a multi-branch school platform used by school chain in Texas.
- Integrated Google Classroom, Clever, and QuickBooks to unify academic, financial, and identity data across branches.
- Built role-based dashboards and reporting tools for administrators, teachers, and finance staff.

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Full Stack Engineer

*Bellevue, WA (Remote)*

*Sep 2023 – Dec 2024*

**Project 1: Chain Education Marketing Platform** · 2023 – 2024

- Led React development for a legacy marketing platform serving a chain education brand, rebuilding core UX and adding new functionality.
- Integrated instructional video delivery, interactive quizzes, and instructor progress tracking, reducing admin workload by 2+ hours/week per instructor.
- Built real-time tracking and reporting dashboards using Firebase Realtime Database and Firestore, improving data processing response time by 40%.

**Project 2: RAIN Healthcare App (HIPAA-Compliant)** · 2024

- Resolved a critical timer desynchronization issue in an OR scheduling application deployed at Adam Vital Hospital by redesigning the event-driven architecture, achieving 100% clock alignment across all devices and timezones.
- Refactored the timer solution into reusable shared libraries later adopted by the mobile team, propagating the fix across all client platforms simultaneously.
- Integrated Speech-to-Text on the mobile side for an AI-powered voice response tool used by clinical staff.

- Maintained strict HIPAA compliance throughout development; coordinated testing across hospital deployment environments.

## 10Pearls

### Senior Software Engineer

Lahore, Pakistan  
Dec 2021 – Jun 2022

- Architected a [Node.js](#), Redis, MongoDB backend achieving 99.9% uptime and 45% faster load speeds, integrated with a React/Next.js/Tailwind CSS frontend.
- Optimized server-side infrastructure to support 1M+ concurrent users with 60% latency reduction and zero downtime.
- Built a workflow automation UI serving 100K+ users, improving task completion efficiency by 35%.
- Migrated a Vue 2 SaaS lead generation platform to Vue 3 under a hard deadline, preserving full feature parity; platform onboarded 2,000+ new users within three months post-launch.

## Nextbridge Ltd.

### Full Stack Engineer

Lahore, Pakistan  
Apr 2019 – Nov 2021

- Delivered full-stack applications for US clients across education, hotel management, and car rental industries in an Agile environment.
- Built an offline-first field operations tool with a web-based mobile screen designer: operators configured the mobile UI via web portal; data synced bidirectionally via PouchDB/CouchDB once devices were back online. Stack: Next.js, Node.js, Express.
- Developed microservices-based applications using MERN/MEAN stacks; containerized services with Docker and managed live deployments.
- Refactored 5,000+ lines of legacy code, improving system performance by 35% and cutting release cycles by 2 weeks.
- Built a digital library, podcast platform, and Alexa skill for US and Australian clients.

## Raaziq International PVT LTD

### Software Engineer

Lahore, Pakistan  
Jan 2018 – Apr 2019

- Built a Metro Bus management system and logistics tracking platform for government clients, automating workflows and eliminating 80+ hours of manual effort per month.
- Developed a multi-module SaaS ERP covering CRM, HRM, freight management, payroll, and inventory for 1,000+ users.
- Reduced SQL query execution time by 75% through targeted optimization; maintained 95% server uptime.

## Wali Systems Inc.

### Software Engineer

Lahore, Pakistan  
Sep 2016 – Dec 2017

- Built full-stack CRM and lead generation tools using Angular, Vue.js, Laravel, and Node.js; extended SugarCRM and SuiteCRM with custom modules and packages.
- Optimized client-side performance, reducing transaction cycle time by 2+ seconds per operation.
- Improved overall application reliability to 99.9% through systematic testing and debugging.

## EDUCATION

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University of Management and Technology (UMT)

2012 – 2016

Bachelor of Science in Software Engineering

Lahore, Pakistan

## CERTIFICATIONS

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- NestJS Modern TypeScript Backend Development
- React.js Essential Training — LinkedIn Learning
- Problem Solving (Basic) Certificate — HackerRank
- IEEE Programming Competition Participant

## WORK AUTHORIZATION

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Authorized to work in the US via employer sponsorship (H-1B). Transfer-ready, No lottery required. Documentation available upon request.