

GHULAM MUSTAFA

Full Stack Engineer | *React • Next.js • Node.js • Laravel • Python • AI/ML*

Email | *WhatsApp* | *Linkedin* | *GitHub* | *GmCodes9*

Lahore, Pakistan | *Open to Remote & International Opportunities*

Social Media (Projects/Demos)

Facebook | *Instagram* | *TikTok* | *X* | *Threads*

PROFESSIONAL SUMMARY

Results-driven **Full Stack Developer** with **4+ years** of experience building scalable, high-performance applications using React, Next.js, Laravel, Python (Django/Fast API/Flask). Experienced in MERN/MEAN development, AI integration, microservices, REST APIs, Redis caching, and scalable system architecture. Proven track record of delivering end-to-end web and mobile solutions serving 10K+ active users, handling 100K+ daily API requests, and improving performance by up to 60% through optimization and caching. Strong Computer Science foundation (**CGPA 3.57/4.0**) with expertise in AI-powered applications, Computer Vision, and modern software engineering.

TECHNICAL SKILLS

Frontend: React • Next.js • Vite • TypeScript • Tailwind CSS • Bootstrap • HTML5 • CSS3

Backend: Laravel • Node.js (Express) • Python (Django, Fast API, Flask) • PHP/Core PHP • REST APIs • Postman

Databases: MySQL • MongoDB • MongoDB Atlas

DevOps & Deployment: Git • GitHub • GitHub Actions • Docker • Vercel • Render • Cloudflare • Production Deployment • Domain & Hosting Configuration

AI & ML Integrations: Open AI APIs • LLM Integration • Prompt Engineering • RAG • NLP • CV • Deep Learning

Architecture: MVC • Microservices • Redis Caching • Load Balancing • Scalable System Design

Programming: JavaScript (ES6+) • TypeScript • Python • PHP

WORK EXPERIENCE

Independent Full Stack Engineer | Contract | July 2026 – Present

- *Developed and deployed production-ready full-stack web applications for real-world clients using Next.js, React, TypeScript, Node.js, Laravel, and modern REST APIs.*
- *Built and launched **Union Add**, a production advertising agency website using Next.js with advanced SEO, GEO, structured data, responsive UI, and production domain deployment.*
- *Developed and launched **Apki Manzil**, a Lahore-focused real estate platform using Next.js with property-focused UI, responsive design, contact functionality, and production deployment.*
- *Implemented modern web architecture, responsive interfaces, API integrations, authentication workflows, performance optimization, and production hosting configuration.*
- *Delivered client-facing applications from development through deployment, including domain configuration, production releases, and post-launch maintenance.*
- *Integrated AI-powered functionality and third-party APIs into web applications, with secure server-side API handling and environment-based configuration.*

Genuine Tech Software's | Full Stack Developer | July 2023 – June 2026

- *Developed **10+** scalable web applications using MERN/MEAN, Laravel, and Python (Django/Fast API), serving **10K+** active users in production.*
- *Designed and developed **20+** secure REST APIs with authentication, database optimization, caching, and third-party integrations, handling **100K+** API requests daily.*
- *Optimized backend performance using Redis caching, query optimization, and scalability techniques, reducing API response times by **30–50%**.*
- *Built responsive, high-performance user interfaces using React, Next.js, TypeScript, and Tailwind CSS, ensuring cross-browser compatibility and accessibility.*
- *Integrated Open AI APIs and AI/ML-powered features for intelligent automation, NLP, and workflow optimization.*
- *Managed MySQL and MongoDB databases, including schema design, indexing, query optimization, and performance tuning.*
- *Containerized applications using Docker and deployed production systems through Git, GitHub, Vercel, and Render, ensuring reliable releases and seamless domain and hosting configuration.*
- *Collaborated in Agile/Scrum teams, participated in code reviews, and delivered scalable, maintainable, production-ready software within project timelines.*

Shan Tech Software's | Frontend Developer | June 2022 – May 2023

- *Developed **8+ responsive, cross-browser web applications** using React, Next.js, TypeScript, HTML5, CSS3, and Tailwind CSS.*
- *Converted **15+ UI/UX designs** into reusable React components and scalable frontend architectures, improving maintainability and design consistency.*
- *Integrated secure **REST APIs** and optimized client-side rendering, responsive layouts, accessibility, and frontend performance, achieving **25–40% performance improvements**.*

PROJECTS

Union Add — Advertising Agency | Next.js • MongoDB Atlas • TypeScript • AI • SEO/GEO

- Built and deployed a production advertising agency website with responsive UI, reusable components, contact functionality, and modern client branding.
- Implemented advanced **SEO, GEO** including metadata, canonical URLs, Open Graph, sitemap, robot's directives, semantic HTML, structured data, and breadcrumbs.
- Configured custom-domain production deployment and hosting.

Apki Manzil — Real Estate Platform | Next.js • Tailwind CSS • TypeScript

- Built and deployed a Lahore-focused real estate platform with responsive property interfaces, reusable components, contact functionality, and modern UI.
- Configured production deployment and custom-domain integration for live client use.

NovaLearn-AI — AI Learning Platform | React • Node.js • FastAPI • MongoDB • Groq • Stripe

- Developed an AI-powered learning platform with authentication, student/admin dashboards, course management, Stripe subscriptions, and webhooks.
- Integrated Groq LLMs for AI tutoring, quiz generation, and text summarization.

AI Smart Assistant — Computer Vision + LLM | FastAPI • MongoDB • DeepFace • Groq • OpenCV

- Built an AI assistant combining facial analysis, identity recognition, and personalized LLM conversations.
- Implemented face embeddings, webcam/image analysis, and Groq-powered contextual responses.

AI Voice Chatbot — Multilingual Assistant | FastAPI • React • MongoDB • AI APIs

- Developed a multilingual voice/text chatbot supporting **English, Urdu, Spanish, Arabic, French, and Hindi**.
- Built domain-based conversational workflows for General, Medical, and Education use cases.

EDUCATION

University of Lahore, Pakistan | Bachelor of Science in Computer Science (**BSCS**) | **2018 – 2022**

- **CGPA: 3.57 / 4.0 (89%)**
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RESEARCH EXPERIENCE

- *A Comparative Study on Full Stack Web Frameworks*
 - *Image Data Augmentation for Deep Learning: A Survey*
 - *Scene Text Detection and Recognition: The Deep Learning Era*
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RESEARCH INTERESTS

Artificial Intelligence • Machine Learning • Deep Learning • Computer Vision • AI-Integrated Web Systems
• LLM • Scalable Backend Architectures • Distributed Systems

LANGUAGES

English (Professional Working Proficiency) | **Urdu** (Native) | **Punjabi** (Native)