

MUHAMMAD SHAHARYAR

Lahore, Pakistan | +92 314 4289959 | shaharyar321321@gmail.com | shaharyar.dev

SUMMARY

Full-stack software engineer with 4+ years of hands-on development experience building production-grade web applications. Specialized in Next.js, React, TypeScript, and modern web architecture. Currently developing a 100k+ line content platform with real-time collaboration, semantic search, and complex state management.

TECHNICAL SKILLS

- Languages: TypeScript, JavaScript, Python, HTML, CSS, SQL
- Frameworks: Next.js (v13+), React, Express.js, Hono, Electron.js
- Databases: PostgreSQL, MySQL, Qdrant (vector database)
- Tools & Technologies: Docker, Git, WebSockets, REST APIs, PWA development
- Specializations: Real-time collaboration systems, semantic search with embeddings, payment integration, responsive UI/UX

PROFESSIONAL EXPERIENCE

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| Full-Stack Developer (Independent Project) | Jan 2024 - Present |
| Content Platform Development | |
| • Architected and developed 100k+ line production platform using Next.js 14, TypeScript, and React | |
| • Implemented real-time collaborative editing with WebSocket integration and conflict resolution | |
| • Built semantic search system using OpenAI embeddings and Qdrant vector database | |
| • Designed git-like versioning and branching system for content management | |
| • Integrated subscription management with tiered pricing and payment processing | |
| • Developed analytics dashboards tracking user engagement, retention, and content performance | |
| • Created mobile-responsive PWA with offline capabilities and progressive enhancement | |
| • Managed full development lifecycle from database design to deployment infrastructure | |
| Web Developer (Freelance/Contract Work) | 2022 - 2024 |
| Various Client Projects | |
| • Developed responsive single-page applications using Next.js and React | |
| • Built network administration dashboard with focus on user experience and modern UI/UX | |
| • Created custom algorithms including voice activity detection without external dependencies | |
| • Deployed production applications to cloud platforms (Vercel, AWS) | |

NOTABLE PROJECTS

Novus Atlas (NOVA) - Content Publishing Platform

- 100k+ lines of code across 8 months of development
- Real-time collaboration, semantic search, advanced analytics, subscription management

Tech stack: Next.js 14, TypeScript, React, PostgreSQL, Qdrant, WebSockets
Currently in late beta with insider author testing phase

Voice Activity Detection Algorithm

- Custom VAD implementation without external dependencies
- Uses FFmpeg for audio buffer processing and analyzes Zero Crossing Rate and Energy levels
- Capable of speech detection while filtering background noise

EDUCATION

Maarif International Schools & Colleges
A Levels - Computer Science (In Progress)

ADDITIONAL EXPERIENCE

IT Department Head for multiple college events (organized logistics and technical operations)

Organized inter-college hackathon (event planning and execution)
Participated in Teknofest international STEM competition