

MUHAMMAD SHAHARYAR

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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

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