

Md. Shahriar Mehedi

Senior Full Stack Engineer & Systems Architect

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Rajshahi, Bangladesh | Open to B2B Contractor Agreements | Fully Overlaps EST/PST Timezones

Summary

Senior Full Stack Engineer & Systems Architect with **5+ years of experience** building high-performance SaaS platforms. Specialized in the **Next.js** ecosystem, **Node.js**, and **PostgreSQL** architecture. Proven track record of engineering real-time systems (**WebSockets**, **Redis**) and optimizing cloud infrastructure to accelerate time-to-market, reduce compute costs, and scale automation for fast-growing B2B startups.

Technical Skills

Frontend: Next.js 16 (App Router), React, TailwindCSS, Shadcn/UI, Redux Toolkit, Framer Motion

Backend: Node.js, Express, Prisma ORM, BullMQ (Task Queuing), REST APIs, GraphQL

Cloud/Data: PostgreSQL, MongoDB, Redis, AWS (S3, EC2, Lambda), Docker, Vercel, CI/CD, Git

Architecture: Microservices, System Design, OAuth 2.0, JWT, WebSockets, Real-time Data Sync

Languages: TypeScript, JavaScript, Python, SQL, HTML5, CSS3

Key Technical Projects

AI Productivity Workspace protasker.shahriarmehedi.me

- Architected a real-time collaborative workspace using Next.js 15 and BullMQ. Implemented Optimistic UI and WebSockets, reducing asynchronous task latency to sub-100ms and significantly improving user retention.

Semantic ATS semantic-ats.shahriarmehedi.me

- Engineered a recruitment platform replacing keyword filters with AI vector similarity search. Improved candidate conceptual match accuracy and reduced manual screening time for HR teams by automating pipeline workflows.

Professional Experience

Founder & Senior Systems Architect, FirstRender Studio 2023 – Present

- Directed technical discovery and system architecture for US/UK startup founders, delivering scalable, production-ready SaaS platforms within aggressive 14-to-21 day deadlines.
- Architected and scaled 4 flagship multi-tenant SaaS platforms from zero to production, integrating AI-driven business intelligence and automated FinTech workflows.
- Optimized PostgreSQL schemas with strategic indexing, partitioning, and caching, reducing query execution time by 45% and significantly lowering monthly AWS/Vercel compute costs.
- Engineered high-concurrency real-time features using WebSockets and Redis, maintaining sub-100ms latency for collaborative enterprise workspaces.

Full Stack Software Developer, Automation Services Ltd. 2021 – 2023

- Scaled enterprise-grade applications using React and Next.js, focusing on automating internal business processes and high-volume inventory management.
- Redesigned core API middleware and database interaction layers, resulting in a 35% increase in backend throughput and mitigating server bottlenecks during peak load.
- Established modern TypeScript coding standards and conducted rigorous peer code reviews within an Agile/Scrum framework.

Education & Leadership

Bachelor of Science in Computer Science & Engineering, Green University, Dhaka 2016 – 2020

- Focused on Software Architecture and Database Management. Graduated with Honors.

Certifications: AWS Certified Cloud Practitioner (In Progress), Meta Professional Front-End Certificate.

Open Source: Active contributor to Next.js community; Maintainer of Prisma performance monitoring utility libraries; Technical blogger on system scalability.