Swayam Purwar

Performance-Focused Full-Stack Engineer | Real-Time Systems & Scalable Architectures

Bhopal, India | swayampurwar111104@gmail.com | +91 99939 00688
GitHub | Portfolio | LinkedIn

PROFESSIONAL SUMMARY

Full-Stack Engineer specializing in low-latency, event-driven applications using the MERN stack. Experienced in architecting scalable backend systems, optimizing React rendering cycles, and improving real-time performance under concurrent load. Focused on delivering production-grade systems with measurable impact and clean modular architecture.

CORE COMPETENCIES

Frontend: React.js, JavaScript (ES6+), Memoization, Code Splitting, Performance Profiling, GSAP

Backend: Node.js, Express.js, REST APIs, WebSockets, Event-Driven Architecture, Middleware Optimization

Database: MongoDB (Schema Design, Indexing), SQL, Query Optimization

Security: JWT Authentication, Protected Routes, Secure API Middleware

Deployment: Git, GitHub, Vercel, Environment Configuration, Production Debugging

PROJECTS

Kite Trading Application – Real-Time FinTech System
Tech: React, Node.js, WebSockets, MongoDB

- Built event-driven stock dashboard handling 1,000+ concurrent simulated updates.
- Designed modular backend architecture for high-frequency data streams.
- Reduced React re-renders by 35% via memoization and optimized state flow.
- Improved response latency from 1.2s to ~400ms using batching and data diffing.
- Structured APIs for future horizontal scaling.

Instagram Full-Stack Application
Tech: React, Node.js, Express, MongoDB

- Implemented JWT-based authentication and protected routing.
- Designed indexed MongoDB schema for scalable user-post interactions.

- Built cursor-based pagination and lazy loading for feed scalability.
- Reduced API payload size by 28% using optimized projections.

Apple Music UI Redesign
Tech: React, GSAP

- Developed high-performance animated UI with synchronized timelines.
- Reduced animation frame drops under heavy DOM load.
- Improved Lighthouse score from 72 to 95+ via asset optimization.

EXPERIENCE

Software Development Engineer Intern – Bluestock Fintech

- Developed backend APIs for financial analytics systems.
- Improved API response time by 22% through query and middleware optimization.
- Assisted in debugging production systems and structured error handling.

Creative Developer (Freelance)

- Delivered interactive portfolio and brand websites end-to-end.
- Improved Lighthouse scores to 90+ via asset compression and lazy loading.
- Managed full lifecycle from requirements to deployment.

EDUCATION

Bachelor of Computer Applications (BCA – Core)
LNCT University, Bhopal | Expected 2026