

# Swayam Purwar

Full-Stack Developer | Real-Time Systems & Scalable Applications

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## PROFESSIONAL SUMMARY

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Full-Stack Developer specializing in low-latency, event-driven systems using the MERN stack. Proven track record of improving performance (up to 60%), reducing costs, and building scalable real-time applications. Focused on system design, optimization, and production-grade engineering.

## SKILLS

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**Languages:** JavaScript (ES6+), SQL

**Frontend:** React.js, Next.js

**Backend:** Node.js, Express.js

**Databases:** MongoDB, Redis

**Systems:** WebSockets, Event-Driven Architecture, Caching

**Tools:** Git, GitHub, Vercel

## PROJECTS

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### Code Sense AI SaaS – Intelligent Code Platform

Next.js, LangChain, OpenAI, Pinecone

- Built a RAG-based SaaS platform enabling multi-document querying.
- Improved vector search accuracy with optimized chunking strategies.
- Reduced perceived latency by 60% via real-time streaming.
- Lowered API costs by 30% using Redis caching.

### Kite Trading Application – Real-Time System

React, Node.js, WebSockets, MongoDB

- Engineered event-driven dashboard handling 1,000+ concurrent updates.
- Reduced React re-renders by 35% through state optimization.
- Improved latency from 1.2s to ~400ms using batching.
- Designed backend for scalable real-time data processing.

### Instagram Full-Stack Application

React, Node.js, Express, MongoDB

- Implemented JWT authentication and protected routes.
- Designed indexed schema for scalable interactions.

- Built pagination and lazy loading for performance.
- Reduced payload size by 28% via query optimization.

### **Apple Music UI Redesign**

React, GSAP

- Developed high-performance animated UI.
- Minimized frame drops under heavy load.
- Improved Lighthouse score to 95+.

## EXPERIENCE

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### **Software Development Intern – Bluestock Fintech**

- Developed backend APIs for analytics systems.
- Improved response time by 22% via optimization.
- Resolved production issues and enhanced error handling.

### **Freelance Developer**

- Delivered portfolio and brand websites end-to-end.
- Achieved performance scores above 90.
- Managed full development lifecycle.

## EDUCATION

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### **Bachelor of Computer Applications (BCA)**

LNCT University, Bhopal | Expected 2026