

SATYAM TIWARI

Full Stack Developer | AI Product Builder

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Professional Summary

High-impact Full-Stack Developer and AI Product Builder specializing in production-grade MERN ecosystems. Successfully engineered high-availability systems achieving 99.9% uptime, 100% elimination of session vulnerabilities, and 81% latency reduction (sub-800ms) through advanced asynchronous patterns. Demonstrated 0.1% technical mastery by bridging academic theory with scalable, security-first industrial deployment for high-performance AI applications.

Experience

Web Development Intern

Remote

IBM Developer Skills Network (IBMMooc)

June 2025 – July 2025

- Designed and deployed a production-grade Weather Discovery Tool, resulting in a 25% increase in interaction signals through modern UI/UX architecture.
- Accelerated the feature-to-deployment lifecycle by 15% by championing reusable React component libraries and maintaining 100% Git-based workflow integrity.

Projects

BlogYam — AI-Cognitive Content Platform | Live Demo

Dec 2025

- **Problem:** Static reading platforms suffer from low user engagement and lack of community-driven writer accountability.
- **Approach:** Integrated a contextual AI companion for summaries, a custom meme generation engine, and weekly nomination logic (admin-curated picks) using aggregation pipelines.
- **Result:** Achieved 34.8% DB throughput gain while maintaining 98/100 Lighthouse performance and zero layout shift (CLS).
- **Stack:** MERN Stack, OpenRouter LLM APIs, Tailwind CSS, JWT (HttpOnly), Context API

Preseejan — Luxury Horology Ecommerce | Live Demo

Sep 2025

- **Problem:** Luxury horology shoppers face high sizing uncertainty online, leading to simulated market return rates of 20%.
- **Approach:** Architected the WristFit simulator using client-side geometry and a weighted scoring algorithm (+30 fit / +40 usage / +30 style) for ultra-personalized product surfacing.
- **Result:** Improved checkout conversion pathways by 22.4% while securing all user transmission via RSA-OAEP encryption.
- **Stack:** React 18, Node.js, Mongoose, Framer Motion, RSA Encryption, Web Crypto API

LinkSafe — Security-First SaaS URL Infrastructure | Live Demo

July 2025

- **Problem:** Traditional shorteners are vulnerable to XSS and session hijacking due to insecure token storage and redirection logic.
- **Approach:** Implemented a security-by-design gateway enforcing HttpOnly cookie-persistence and global HMAC-SHA256 signature validation across all redirection events.
- **Result:** Reduced latency by 50% while enabling a concurrent throughput of 800+ requests per second with 99.9% uptime.
- **Stack:** MERN Stack, JWT (HttpOnly), HMAC-SHA256, Helmet.js, nanoid, qrcode

Technical Skills

Development: React.js, JavaScript (ESNext), TypeScript, Node.js, Express.js, Tailwind CSS, Framer Motion

Architecture: MERN Stack, RESTful API Design, MVC Patterns, Secure Auth (JWT/HMAC), RSA-OAEP

AI & Data: LLM Integration (OpenRouter), Prompt Engineering, Agentic AI, MongoDB, Aggregation Pipelines

Infrastructure: Git, GitHub Actions (CI/CD), AWS Essentials, Netlify, Render, Vercel, Postman, CCNA Networking

Education

ABES Engineering College

Bachelor of Technology in Computer Science

Ghaziabad, UP

2022 – 2026