

Satwaj Bachhav

Full-Stack Developer | MERN | Cloud & AI

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Summary

Full-Stack Developer (MERN) with hands-on experience building cloud-native, AI-powered web applications. Deployed a Kubernetes-based cloud IDE (5 microservices) and a production e-commerce platform with secure payments.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, C++, SQL, HTML5, CSS3

Frontend: React.js, Next.js, Vite, Redux Toolkit, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, API Design, WebSockets, Socket.IO, JWT, OAuth 2.0, Passport.js, RBAC

Databases & Messaging: MongoDB, Mongoose, Aggregation Pipeline, Redis, RabbitMQ, Pinecone

AI / GenAI: LangChain, LangGraph, RAG, AI Agents, Mistral AI, Gemini, Groq, Tavily Search API

DevOps & Cloud: Docker, Kubernetes, NGINX Ingress (API Gateway), Microservices Architecture, Scaffold, AWS (EC2, S3, ECS, ECR, EKS, IAM, ELB), CI/CD Pipelines

Tools & Practices: Git, GitHub, Postman, Cloudinary, Razorpay, CI/CD, Deployment, Testing, Microservices, Performance Optimization, User Experience, Teamwork, Communication

Experience

Web Development Intern, FireFist Solution, Nashik

Jan 2026 – Feb 2026

- Built and deployed a responsive trading website for TradeHub Nashik using React, HTML, CSS, and JavaScript, focusing on user experience across mobile and desktop screens.
- Worked with a team to develop reusable React components and page layouts during a 45-day internship.

Projects

FrontendForge – AI-Powered Cloud Sandbox IDE

GitHub

Tech Stack: React, Vite, Node.js, Express, Docker, Kubernetes, MongoDB, Redis, RabbitMQ, LangChain, LangGraph, Mistral AI, AWS S3, node-pty, NGINX Ingress

- Independently architected and deployed a cloud-based browser IDE where every user gets an isolated coding environment, built as **5 scalable microservices** (auth, sandbox provisioning, AI orchestration, routing, notifications) with Docker and Kubernetes.
- Engineered on-demand sandboxes using the Kubernetes Client API: isolated per-user pods (Vite dev server + node-pty terminal) start in under 5 seconds, auto-delete after 20 minutes of inactivity using Redis TTL, and persist project files to AWS S3.
- Developed a LangGraph ReAct coding agent powered by Mistral AI that reads, creates, and edits project files directly inside live sandbox pods, streaming output via Server-Sent Events and triggering Vite HMR for reload-free updates.
- Designed wildcard NGINX Ingress routing, a custom WebSocket proxy for per-sandbox preview and terminal traffic, and an event-driven RabbitMQ pipeline for email notifications; secured the app with Google OAuth 2.0 and JWT (httpOnly cookies).

Snitch – MERN E-Commerce Platform

Live Demo · GitHub

Tech Stack: React.js, Redux Toolkit, Tailwind CSS, Node.js, Express.js, MongoDB, JWT, Razorpay, Cloudinary

- Built a production-ready e-commerce platform end to end, with JWT and Google OAuth 2.0 authentication, a full product catalog, cart, wishlist, checkout, and order-management flow.
- Integrated Razorpay payments with server-side signature verification to prevent tampered transactions, and designed REST APIs backed by MongoDB Aggregation Pipelines for order analytics.
- Optimized product search, filtering, sorting, and pagination for performance; managed global state with Redux Toolkit.
- Handled testing and deployment to production (frontend on Vercel, backend on Railway) with Cloudinary for image storage and delivery.

Education

Matoshri College of Engineering and Research Centre, Nashik

CGPA: 8.5 / 10

Bachelor of Engineering in Information Technology

Expected July 2027

Certifications

Full Stack Web Development with Gen AI and DevOps, Sheryians Coding School (Cohort 2)

Sep 2025 –

Present