

# ABHISHEK VISHWAKARMA

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Portfolio: [portfolio-tau-lilac-98.vercel.app](https://portfolio-tau-lilac-98.vercel.app)

## PROFESSIONAL SUMMARY

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- Full Stack Developer with hands-on production experience building and deploying end-to-end MERN applications — including real-time WebSocket systems, AI API integrations (Groq + Google Gemini), payment gateway flows, and role-based access control across 2 live projects.
- Strong command of the full development lifecycle: REST API design and testing (Postman), secure backend architecture (JWT, HMAC, RBAC), responsive React frontends (code-splitting, dynamic routing), cloud media management (Cloudinary), and CI/CD pipelines using GitHub Actions with deployments on Vercel and Render.
- Seeking a Full Stack Developer role to deliver scalable, production-ready features across both frontend and backend — contributing to system design discussions, participating in code reviews, and growing within a collaborative engineering team.

## PROJECTS

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### ReWear – Pre-Loved Fashion Marketplace | Live: [rewear-dusky.vercel.app](https://rewear-dusky.vercel.app)

- Delivered end-to-end AI integration with a hybrid architecture — text messages routed to Groq (LLaMA 3.1) for 14,400 req/day free-tier capacity, image uploads routed to Google Gemini for vision-based resale price estimation with Cloudinary image input; engineered fault-tolerant 3-key rotation and 2-model fallback chain per provider for production-grade quota resilience across both APIs.
- Built a production-grade real-time MERN + Socket.io application with role-based route protection across 2 roles (Admin, User) — single User account supporting both buying and selling — with bidirectional chat and Cloudinary media uploads via `upload_stream` pipeline.
- Architected an in-chat price negotiation engine with structured offer/counter-offer/decline flows (2-round limit) persisted across 5 message types using atomic MongoDB operations — eliminating inconsistent transaction states.
- Integrated Razorpay with HMAC server-side signature verification guarding 2 checkout flows (standard + negotiated price) against race conditions; implemented CI pipelines using GitHub Actions and integrated platform-native CD via Vercel and Render — achieving zero hard-refresh failures in production.
- Implemented a 5-status listing lifecycle (pending → approved → rejected → sold → inactive) with admin moderation as a content trust layer; secured Socket.io connections via JWT handshake middleware — rejecting unauthenticated connections before room entry.

### Job Portal – Full-Stack MERN Application | Live: [jobportal-frontend-ten.vercel.app](https://jobportal-frontend-ten.vercel.app)

- Architected a scalable Job Portal (MERN) with RBAC across 2 roles (Recruiter, Job Seeker) — 15+ RESTful APIs on MVC architecture covering job posting, applications, and user workflows with JWT-based authentication and protected routes.
- Built secure backend services with dynamic job filtering across multiple parameters and complete application lifecycle management, following REST principles and clean separation of concerns.
- Integrated Cloudinary for cloud-based resume storage with Multer validation and error handling; delivered a performance-optimized React frontend with code-splitting, dynamic routing, and a fully responsive UI.
- Tested and validated 15+ APIs using Postman ensuring reliable request/response handling and robust error handling across both user roles; configured automated build validation and deployment workflows on Vercel ensuring production stability through environment-based configuration.

## TECHNICAL SKILLS

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**Languages:** JavaScript (ES6+), TypeScript (learning), Python, HTML5, CSS3, Java (Basics)

**Frameworks & Libraries:** React.js (v18), Node.js, Express.js, Socket.io, Tailwind CSS, Axios, Multer, Mongoose ODM

**AI & APIs:** Google Gemini API, Groq API (LLaMA 3.1), multi-turn conversational AI, REST API design, Postman (API testing & documentation)

**Databases:** MongoDB (atomic operations, aggregation pipelines, indexing), SQL (Basics)

**Cloud & DevOps:** AWS, Docker, Vercel, Render, Netlify, Cloudinary, CI/CD (GitHub Actions)

**Payments & Security:** Razorpay, HMAC Signature Verification, JWT, Bcrypt, RBAC, Cybersecurity Fundamentals

**Methodologies:** Agile, Scrum, MVC Architecture, code reviews, SDLC

**Key Concepts:** Real-time applications (WebSockets), race condition prevention, code splitting (Lazy Load + Suspense), SPA routing, state modeling

## CERTIFICATIONS

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J.P. Morgan – Software Engineering Job Simulation | AWS – Solutions Architecture Job Simulation

Deloitte Australia – Data Analytics Job Simulation | Walmart USA – Advanced Software Engineering Job Simulation

DataCom – Cybersecurity Fundamentals | Docker – Containerization & Deployment | Certificates: [tinyurl.com/abhi-certificates](https://tinyurl.com/abhi-certificates)

## EDUCATION

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**Bachelor of Science in Information Technology (BSc IT)** — L.S. Raheja College, University of Mumbai | 2026

**Higher Secondary Certificate (HSC)** — Durga Devi Saraf Junior College | 2020