Manish Patidar

Full Stack Developer passionate about building scalable, user-centric web applications.

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WORK EXPERIENCES

Software Engineer | Contract — Sep 2025 - Dec 2025
Mercor — *Remote*
- **Audited** and **validated** over 100 research-level Data Structures and Algorithms (DSA) and System Design problem statements, achieving 78% accuracy in logic verification for high-fidelity technical assessments.
- **Analyzed** research-level problem statements to identify underlying logic, constraints, and expected solution approaches.

Technologies / Skills Used : *Problem solving (DSA), C++, System Design*

Full Stack Developer | Full-time — Jan 2025 - Aug 2025
Cold Pressery — *Remote*
- Architected and deployed a centralized workflow management platform using the MERN stack, migrating 10,00+ records(for testing) from legacy Excel processes and improving data integrity by 45%.
- Developed an automated candidate lifecycle management system integrating Gmail and Twilio APIs, reducing manual recruiter screening time by 15+ hours per week.
- Engineered real-time administrative dashboards with React and RTK Query, providing instantaneous KPI tracking for caller activities and increasing operational transparency by 30%.
- Implemented a robust Role-Based Access Control (RBAC) system for three user personas, securing the end-to-end interview pipeline and ensuring HIPAA-compliant data handling for client leads.

Technologies / Skills Used : *React, Node.js, MongoDB, REST APIs, Gmail Service, Twilio SMS*

Software Developer Intern | Internship — Jan 2024 - Jul 2024
Philips — *On-site • Bengaluru*
- Developed high-throughput internal web APIs in C# for the Philips **HealthSuite Digital Platform** (HSDP), facilitating secure data exchange for clinical microservices while maintaining 100% adherence to regulatory standards.
- Engineered an automated image rotation feature for the **Advanced Visualization Workspace** (AVW16) that synchronized 3D reconstructions with C-arm movement, potentially reducing radiologist reading time.
- Designed a Python-based classification script using GPT-4 (Multimodal) to identify anatomical regions in MRI images, achieving an 82% accuracy rate and automating the initial diagnostic validation process.
- Architected a Retrieval-Augmented Generation (RAG) chatbot utilizing vector embeddings of complex medical manuals, enabling radiologists to retrieve technical answers 3x faster than manual search.

Technologies / Skills Used : *C#, Python*

Software Developer Intern | Internship — May 2023 - Jun 2023
Microsoft — *On-site • Hyderabad*
- Architected a real-time Microsoft Teams extension for enterprise service management using React.js and Fluent UI, streamlining the support experience for 1,000+ internal users.
- Developed secure backend microservices utilizing Azure Functions (C#) and Kusto Query Language (KQL), optimizing telemetry data retrieval from multi-terabyte databases to achieve sub-200ms response times.
- Integrated Microsoft Authentication Library (MSAL) to implement secure Single Sign-On (SSO), ensuring seamless user access and reducing workflow friction by 25%.

Technologies / Skills Used : *JavaScript, React.js, C#, Azure Function, KQL*

PROJECTS

Voicer - Realtime Voice Chat App | Github
Individual Project
- **Engineered** a low-latency, real-time voice communication platform using **WebRTC** and **Node.js**, enabling concurrent peer-to-peer audio streams, inspired by Twitter Spaces and Clubhouse.
- **Implemented** custom signaling logic with Socket.io to manage user presence, room states, and dynamic role-based participation for Speakers and Listeners.
- **Utilized** WebRTC for peer-to-peer audio streaming, incorporating **TURN/STUN** servers for effective NAT traversal.
- **Designed** a secure OTP-based authentication system and integrated a **MongoDB** backend to persist room metadata and user profile statistics.

Technologies / Tools Used : *React.js, Node.js, MongoDB, WebRTC, Socket.IO, Express*

ChatTalk - Real-Time Chat Application | Github | Website
Individual Project
- Developed a high-concurrency real-time chat application using Socket.io, featuring instant message delivery, typing indicators, and real-time read receipts.
- Architected a RESTful API layer with Node.js and Express to handle friend requests, group chat operations, and infinite-scroll message retrieval for 5,00+ messages.
- Built a comprehensive admin dashboard to monitor system health, user engagement, and chat volume, improving platform moderation efficiency.

Technologies / Tools Used : *ReactJS, Node.js, Express, MongoDB, Socket.IO*

Social Media Application | Github | Website
Individual Project
- Designed a responsive full-stack social media platform with React.js and SCSS, achieving a 90+ performance score on mobile and desktop devices.
- Implemented an asynchronous media upload pipeline using Node.js and MongoDB, enabling seamless posting of high-resolution images and video content.
- Leveraged Redux for centralized state management, ensuring predictable data flow across complex user profile, like, and comment components.

Technologies / Tools Used : *HTML, CSS, JavaScript, ReactJS, Node.js, MongoDB*

Portal for Mobile Shop | Github | Website
Individual Project
- Built a responsive platform with personalized product recommendations based on user ratings.
- Initially built server-side logic and database management with **PHP** and **MySQL**, later transitioned to a **MERN stack** for improved scalability and performance.
- Integrated product recommendation algorithms to personalize the user experience, helping customers discover relevant products.
- Designed a responsive and user-friendly front-end using HTML, CSS, JavaScript, and Bootstrap to ensure seamless navigation across devices.

Technologies / Tools Used : *HTML, CSS, JavaScript, Bootstrap, PHP, MySQL, MongoDB*

SKILLS

Databases :	MySQL, MongoDB, PostgreSQL, Redis, Prisma
Frameworks & Libraries :	React, Next.js, Express, Node.js, Tailwind CSS, Redux, RTK Query, Zustand, Daisy UI
Programming Languages :	C++, JavaScript, Python, TypeScript, SQL, PHP
Tools & Platforms :	VS Code, PyCharm, Visual Studio, Figma, Git, Postman, GitHub, Docker

EDUCATIONS

Vellore Institute of Technology | Vellore — 2020 - 2024
B.Tech — *CGPA : 8.43*
- Major in Computer Science

AWARDS & ACHIEVEMENTS

- Solved **1200+** problems on coding platforms including Codechef, Leetcode, GFG, Hackerrank, Interviewbit, and Code Studio.
- Awarded Certificate of Appreciation for completing the Full Stack Development Course.
- Codeforces Specialist, solved **450** competitive programming questions.