

# MAHESH RAY

Full Stack Developer

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## Summary

**Full Stack (MERN) Developer** with hands-on experience in building scalable web applications using **React js**, **Next js**, **Node.js**, **Express**, and **MongoDB**. Skilled in developing **responsive** user interfaces, **RESTful APIs**, **WebSockets**, **MVC architecture** and efficient backend systems. Strong understanding of **clean code**, **performance optimization**, and **end-to-end** application development.

## Skills

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

**Frontend Technologies:** React.js, Next.js, Bootstrap, Tailwind CSS, HTML5, CSS

**Backend Technologies:** Node.js, Express.js, MVC Architecture

**Database Management:** MongoDB, mongoose ORM, SQL

**Cloud & DevOps:** Git, CI/CD Pipelines

**API & Integration:** AI API Integration, WebSockets, REST APIs

## Projects

**ProTask** | MERN, React.js, Tailwind CSS

Dec 2025 – Jan 2026

- Developed a **full-stack Task Management application** using **MongoDB**, **Express.js**, **React.js**, and **Node.js (MERN)**, capable of efficiently managing **1,500+ tasks** with scalable and reliable data handling.
- Designed and implemented **8+ RESTful APIs** enabling complete **CRUD operations**, with standardized **HTTP status codes**, validation, and robust error handling.
- Architected a **scalable backend system** using **Express.js** and **Mongoose**, adhering to **MVC design principles**, improving code maintainability and reducing technical complexity by **~35%**.
- Built a **responsive, modular frontend** using **React.js**, implementing **20+ reusable components** and optimized API integration to ensure smooth client-server communication.
- Implemented secure configuration and environment management using **environment variables**, eliminating hard-coded credentials and following **industry-standard clean coding practices**.

**TalkHub** | MERN, React.js, WebSockets (Socket.io) WebRTC, Tailwind CSS

Nov 2025 – Jan 2026

- Built a **real-time video chat application** using the **MERN stack**, enabling **low-latency (<300ms)** audio/video communication for **50+ concurrent users**.
- Implemented **WebSocket-based bi-directional signaling** using **Socket.io**, managing **real-time events**, **room creation**, and **user synchronization** across **100+ active sessions**.
- Integrated **WebRTC** for **peer-to-peer audio/video streaming**, reducing server bandwidth usage by **~60%** and improving call scalability.
- Designed a **scalable Node.js & Express backend** following **MVC architecture**, improving code maintainability and request handling efficiency by **~30%**.
- Developed a **modular React frontend** with **15+ reusable components**, enabling real-time UI updates and smooth user interactions during live sessions.
- Applied **event-driven architecture** and **clean coding practices**, ensuring reliable message delivery with **O(1)** event handling and improved system stability.

**Wunderlust** | Node.js, Express.js, MongoDB, Mongoose, EJS, Tailwind CSS

jan 2025 – mar 2025

- Engineered a **full-stack hotel listing application** using **Node.js**, **Express**, and **MongoDB** with **EJS-based server-side rendering**, capable of managing **500+ hotel listings** efficiently.
- Implemented **dynamic data rendering** and **RESTful backend logic (6–8 APIs)** to support seamless hotel listing creation, updates, filtering, and deletion.
- Designed **scalable MongoDB schemas** using **Mongoose** and performed complete **CRUD operations**, achieving **~40% faster query performance** through optimized indexing.
- Structured the application following **MVC architecture**, ensuring clean separation of concerns and improving long-term maintainability by **~30%**.

## Education

**Bachelor of Computer Applications – Computer Science**

**Graduated: 2026**

Phonics University, Uttarakhand, IN

CGPA: 7.3

**Higher Secondary Education – Math**

**Passed: 2023**

Government Inter College

SCORE: 73%