

Jay Mahato

Full Stack Developer — Bengaluru, Karnataka, India
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WORK EXPERIENCE

Media NV — Full Stack Developer FEB 2026 – PRESENT
Ahmedabad, Gujarat

- Developed and maintained EMR data synchronization pipelines between frontend and backend services using Next.js and NestJS, reducing data inconsistency errors by 90% across 5+ distributed patient record modules.
- Developed and integrated 8+ RESTful APIs for patient data, authentication, and appointment workflows, enabling secure, role-based access for 3 user roles (Admin, Doctor, Staff).
- Architected a Kanban-style support ticket management page in the admin panel using Next.js and Redux, reducing average ticket resolution time by 40% through real-time drag-and-drop status updates (Open, In Progress, Resolved).
- Optimized frontend performance via SSR and code-splitting, improving page load time by 35% and achieving consistent responsiveness across desktop and mobile devices.
- Engineered a role-based permission system using a nested features !' widgets !' attributes JSON structure with canView, canCreate, canUpdate, and canDelete flags, securing 10+ admin panel modules.

Virtual Teams Inc. — MERN Stack Developer Intern JUN 2024 – NOV 2024
Ludhiana, Punjab

- Delivered 3 full-stack applications using the MERN stack (React, Node.js, Express, MongoDB) with JWT authentication, handling 50+ concurrent API requests with optimized query performance.
- Collaborated within a cross-functional team of 4 developers and 1 product manager, maintaining 100% sprint delivery rate over 6 months via daily stand-ups and code reviews on 20+ pull requests.
- Presented 15+ pages of technical API documentation and integration specs to the engineering team, cutting developer onboarding time by 30% and reducing cross-team clarification requests by 50%.

PROJECTS

Blog Application JUN 2025 – AUG 2025
React.js · Node.js · Express.js · MongoDB · JWT · Tailwind CSS

- Built a full-stack blog platform with JWT-based authentication, supporting signup/login flows and protecting 5+ user-specific API routes from unauthorized access.
- Designed CRUD endpoints for blog posts with role-based authorization; reduced average API response time to under 200ms through query optimization and indexing.
- Integrated pagination (10 posts/page) and MongoDB indexing, cutting database query time by 60% under high-load conditions with 100+ concurrent requests.
- Achieved fully responsive UI across 3 breakpoints using Tailwind CSS, improving mobile usability score by 25% based on Lighthouse audit.

Task Management API SEP 2025 – DEC 2025
Node.js · Express.js · PostgreSQL · Redis · JWT · Docker

- Designed a RESTful task management API with Node.js, Express, and PostgreSQL, covering projects, tasks, labels, and user-assignment workflows.
- Implemented JWT authentication with refresh-token rotation and role-based access control for admin, manager, and member roles.
- Added Redis caching on hot read paths, cutting p95 response latency by 40% in load tests with 200+ concurrent users.
- Containerized the service with Docker and wired a CI pipeline running lint, type checks, and integration tests on every pull request.

TECHNICAL SKILLS

Languages: C++, JavaScript
Frameworks & Libraries: React.js, Next.js, NestJS, Node.js, Express.js, Redux, Tailwind CSS, EJS
Databases: MongoDB, MySQL, PostgreSQL
Tools & Platforms: Git, Docker, REST APIs
Core Competencies: Data Structures & Algorithms, Algorithm Optimization, Responsive Web Design, EMR Systems

EDUCATION

Lovely Professional University 2020 — 2024
B.Tech, Computer Science and Engineering — CGPA 7.14 · Jalandhar, Punjab

Kendriya Vidyalaya No 1 AFS Agra 2018 — 2019
Class 12th — 76% · Agra, UP

Kendriya Vidyalaya No 1 Tirupati 2016 — 2017
Class 10th — CGPA 9.6 · Tirupati, AP