

AMARESH MAHARANA

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PROFESSIONAL SUMMARY

A fresher Full Stack Developer skilled in MERN stack technologies including React.js, Next.js, Node.js, TypeScript, and MongoDB. Built multiple production-style applications involving authentication, payments, real-time communication, and cloud integrations. Passionate about solving real-world problems through scalable software solutions.

SKILLS

Languages: JavaScript (ES6+), TypeScript, Java, Python, SQL

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, shadcn/ui, Redux

Backend: Node.js, Express.js, WebSockets, JWT/OAuth, REST APIs

Databases: MongoDB, MySQL, PostgreSQL, Redis, Prisma ORM

Tools/Platforms: Git, GitHub, Postman, Vercel, Netlify, VS Code, Docker

Methodologies: Agile, Scrum

PROJECTS

RedRelief | Real-Time Blood Donation Management Platform

GitHub | Live Demo

React.js, TypeScript, Node.js, MongoDB, Redis

Feb 2026 - April 2026

- Built a full-stack **blood donation management system** with role-based access control for donors, recipients, hospitals, and admins using React.js, Node.js, MongoDB, and JWT authentication
- Reduced **notification latency by ~80%** by migrating from polling to **Redis pub/sub** and WebSocket-based architecture, enabling real-time sub-second updates at scale
- Implemented end-to-end authentication flows** (registration, login, token refresh) with secure JWT issuance and revocation, ensuring zero unauthorized access in production.

LearnMate | Learning Management System (LMS)

GitHub | Live Demo

Next.js, PostgreSQL, Prisma, Stripe, Tigris S3

Oct 2025 - Dec 2025

- Built an LMS** supporting course publishing, enrollment workflows, secure Stripe payments, and media uploads using Next.js, Prisma, and PostgreSQL.
- Implemented role-based authentication** using better-auth with `requireUser()` and `requireAdmin()` guards, and integrated **Stripe Checkout** with webhook-based enrollment activation for secure payment processing.
- Engineered S3 presigned URL uploads** for course media and thumbnails with direct browser-to-storage transfer, and deployed the platform on **Vercel** with environment-secured API keys for production readiness.

DoodleForge | AI-Powered SaaS Text-to-Image Platform

GitHub | Live Demo

React.js, Node.js, Express.js, MongoDB, Clipdrop API

Aug 2025 - Sep 2025

- Built a full-stack text-to-image** app using React, Node.js, Express, and MongoDB, integrating the **Clipdrop API** to convert text prompts into downloadable AI-generated images.
- Implemented JWT authentication** and a **Razorpay-powered credit system**, enabling secure user sessions and seamless in-app purchases for image generation.
- Deployed a decoupled client-server architecture** on Vercel with protected REST APIs and Mongoose data modeling, delivering a production-ready AI image generation platform.

EDUCATION

Raajdhani Engineering College

2022 - 2026

B.Tech in Computer Science and Engineering | CGPA: 8.13

ACHIEVEMENTS

- Ranked top ~0.5% globally (**932nd**) in **HackerRank Orchestrate** May 2026 by building and submitting a functional AI Agent.

CERTIFICATES

- HackerRank Orchestrate** May 2026 - Certificate of Excellence, AI Agent Development (May 2026).
- Postman API Fundamentals Student Expert** proficiency in API design, testing, and documentation using Postman. (April 2025)