TEJA VASU YELLAPU

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EDUCATION

Nxtwave Disruptive Technologies   2024 - 2025
Industry Ready Certification in Full-stack Development

Visakha Institute of Engineering and Technology, Visakhapatnam   2023 - 2025
MCA (Master of Computer Application)_Computer Science Engineering (CSE)
(7.5%)

Aditya degree college, Visakhapatnam   2020 - 2023
BSc (Bachelor of Science)_Computer Science Engineering (CSE) (8.21 CGPA)

Sri Siddatha Jr.college, Visakhapatnam   2018 - 2020
Intermediate_MPC (6.57 CGPA)

Amar English Medium School, Visakhapatnam   2017 - 2018
Secondary School Of Certificate (9.5 CGPA)

SKILLS

Frontend: HTML, CSS, Bootstrap, JavaScript, React.js
Backend: Python, Express, Node.js
Databases: SQLite, PostgreSQL(Prisma)
Other skills: Express(node), MongoDB, Next.js, Redux ToolKit, Tailwind CSS,TypeScript

PROJECTS

Course Platform (All-Access LMS with Stripe Payments) (https://lms-stripe-7.vercel.app/)
Built a **production-grade all-access course platform** where users pay **$99 once** for **lifetime access** to all courses.
- Integrated **Stripe one-time payments** + **webhook verification** to prevent payment fraud.
- Implemented **secure authentication & role-based access** using Clerk (student/admin separation).
- Designed admin dashboard for course creation, user management, analytics, and revenue tracking.
- Developed video course player supporting YouTube & Wistia embeds.
- Optimized performance using Next.js 16 caching (use cache, tagged revalidation) resulting in 5–25x faster loads.

Tech Stack: Next.js 16 (App Router), TypeScript, MongoDB (Mongoose), Clerk, Stripe, Cloudinary, Tailwind CSS, React Hook Form.

Library Management System – Full-Stack Application(https://lms-v1-7.vercel.app/)
- Designed and developed a role-based library management system with Admin and Reader access.
- Implemented secure authentication using JWT, cookies, and password hashing (bcrypt).
- Developed REST APIs with Express and optimized MongoDB queries using Mongoose.
- Added bulk import/export of books and reports using Excel (xlsx) and PDF generation.
- Integrated Cloudinary for media storage and Multer for file uploads.

Tech Stack: React, Vite, Tailwind CSS, Redux/Zustand, Node.js, Express, MongoDB, JWT, Cloudinary.

Complaint & Grievance Management System – Full-Stack CMS(https://cms-v1-7.vercel.app/)
- Designed and developed a role-based grievance redressal system for academic institutions.
- Implemented secure authentication using JWT, cookies, and bcrypt with password change tracking.
- Built multi-level complaint routing system (Faculty → HOD → Vice Principal → Principal).
- Enabled file attachments with Multer and Cloudinary integration.
- Added feedback system, complaint aging metrics, and optimized MongoDB indexes.
- Developed REST APIs using Node.js, Express, and MongoDB (Mongoose).

Tech Stack: Node.js, Express, MongoDB, JWT, Cloudinary, Multer.

Vestra – Full-Stack E-Commerce Platform (https://vestra-ecommerce.vercel.app/)
- Designed and developed a production-ready e-commerce platform with user and admin workflows.
- Implemented secure authentication, cart management, and role-based admin access.
- Built complete product lifecycle management (add, edit, delete, inventory handling).
- Integrated multiple payment methods including Stripe, Razorpay, and Cash on Delivery.
- Developed order tracking system with real-time status updates (Placed → Delivered).
- Optimized API performance and database queries for scalable product and order handling.

Tech Stack: React, Node.js, Express, MongoDB, Stripe, Razorpay, Tailwind CSS.

Full-Stack Real-Time Chat Application (https://chat-7.vercel.app/)
- Designed and developed a real-time chat application with custom JWT-based authentication (no third-party auth).
- Implemented one-to-one messaging using Socket.io with live online/offline presence indicators.
- Added typing indicators, message notifications, and sound alerts with user-controlled toggles.
- Integrated email services using Resend to send automated welcome emails on user signup.
- Enabled image uploads and media handling using Cloudinary integration.
- Built secure REST APIs with Node.js and Express, including API rate limiting using Arcjet.
- Managed global application state efficiently using Zustand for scalable UI state handling.
- Deployed backend and frontend on free-tier friendly infrastructure with environment-based configuration.

Tech Stack: React, Tailwind CSS, DaisyUI, Node.js, Express, MongoDB, Socket.io, JWT, Cloudinary, Resend, Arcjet, Zustand.