Madhu Sai Hemanth Nayani

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OBJECTIVE

Fuelled by a passion for clean code and high-performance applications, I aim to accelerate innovation as a MERN Stack Developer. With MongoDB, Express, React, and Node as my pit crew, I build full-stack solutions that are fast, scalable, and built to handle curves at any speed. I'm not here to maintain the status quo — I'm here to engineer the next-level digital experience with velocity, precision, and relentless drive.

SKILLS

Frontend :React.js, HTML, CSS, JavaScript, Bootstrap, Responsive Design
Backend :Node.js, Express.js, REST API Development
Databases : MongoDB, SQL, Vector Databases (Chroma DB, FAISS)
DevOps & Tools : Git, GitHub, AWS, Azure, Copilot Studio, Cloudinary
Other : WT Authentication, OAuth 2.0, Prompt Engineering

EDUCATION

Acharya Nagarjuna University **Guntur, AP**
B.Tech in Computer Science and Engineering *2020 May - 2024 May*

- **Concentrations:** Computer Science
- **GPA:** 7.0/10.0

Vignana Bharathi Jr. College **Chirala, AP**
Intermediate *2018 Mar - 2020 Apr*

- **Concentrations:** MPC(Mathematics, Physics, Chemistry)
- **GPA:** 8.0/10.0

INTERNSHIP

AWS APAC Solutions Architecture virtual experience program on Forage **December 2024**

- **Designed a scalable web hosting architecture** using **AWS Elastic Beanstalk** to address performance issues caused by increased traffic
- Improved response time and scalability through **auto-scaling**, **load balancing**, and **resource optimization**.
- Delivered a **client-friendly explanation** of the solution, covering how it works and providing an estimate of AWS cost structure.
- Explained complex architecture in a client-facing presentation using visual tools to simplify AWS scalability concepts.

PROJECTS

Project 1: Insta Share (Instagram Clone) GitHub Link

Description: A full-stack social media application built using the MERN stack that replicates core Instagram features, enabling users to share posts, interact, and connect in real-time.

Key Contributions:

- Developed a full-stack Instagram clone using **MERN stack**, featuring user authentication (JWT, bcrypt.js), profile management, and follower/following system.

• Implemented **post creation, likes, and comments** with real-time updates, along with secure image upload & storage via Cloudinary/Multer.

• Designed a **responsive React.js UI with CSS** and seamless navigation using React Router for a mobile-first experience.

•Built and deployed scalable RESTful APIs with Express.js & MongoDB, hosted on Heroku/Render/Vercel with CI/CD integration.

• Enhanced user-friendly navigation and browsing experience with interactive UI components.

Tech Stack: React, React Hooks, Node.Js, JWT, Express.js , CSS

Project 2: Customer Relationship Management (CRM) Web Application

GitHub Link

Description: Developed a comprehensive, full-stack web application to manage customer and address information. The system features a clear separation of concerns with a backend RESTful API handling business logic and a dynamic frontend for user interaction. The architecture supports a one-to-many relationship, allowing each customer to have multiple addresses associated with their profile.

Key Contributions:

• API and Database Integration: Built a robust RESTful API with Node.js and Express to perform all CRUD (Create, Read, Update, Delete) operations for both customers and their addresses. A lightweight SQLite database was used for data persistence.

• Dynamic Frontend: Created a responsive and intuitive user interface with React, enabling seamless navigation between pages without full reloads, thanks to React Router.

• Advanced Features: Implemented server-side pagination to efficiently handle large datasets, along with search and filtering capabilities to allow users to easily find specific customer information.

• Data Validation: Ensured data integrity through both client-side and server-side validation, providing immediate user feedback and securing the database from invalid entries.

Tech Stack: React, React Router, Node.js, Express.js, SQLite, Axios

Project 3: Restaurant Menu Application

GitHub Link

Description: Engineered a dynamic and responsive restaurant menu page that delivers an intuitive and visually appealing user experience on both mobile and web platforms. The application fetches menu data from a live API, displaying dish categories and individual dishes within them.

Key Contributions:

• Dynamic UI from API: The user interface is generated dynamically based on data fetched from a REST API. This includes creating slidable dish category tabs that adjust according to the API response, ensuring the menu is always up-to-date without hardcoded values.

• Interactive Cart Functionality: Implemented a seamless cart management system where users can add or remove dishes. The total item count is instantly updated on both the specific dish and the main cart icon in the header, providing real-time feedback.

• Conditional Rendering: Enhanced user experience by displaying a "Customizations available" message for dishes that include add-ons, immediately informing users of their options.

• Reusable Components and Code Standards: Followed best practices by building the application with maintainable and reusable components, ensuring the codebase is clean, scalable, and easy to manage.

Tech Stack: React.js,Node.js, Express.js, RESTful API

Certifications : Industry Ready Certificate By CCBP NxtWave : *IRC Certificate*