Bhavani Murali

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Objective

Passionate software developer with expertise in **MERN stack**, **PostgreSQL**, and real-time applications, dedicated to building **secure, scalable and data-driven solutions**. Experienced in **API development, authentication, authorization, and data visualization**, with a strong problem-solving mindset and a commitment to delivering high-performance applications.

Education

Atharva College of Engineering, B.E. in Computer Engineering   August 2023 – Present
- CGPA: 9.87/10.0

PACE Junior Science College , H.S.C.   June 2022 – March 2023
- Percentage: 83 %

Projects

1. *Aptitude Test Portal*   December 2024 – Present

- Developed a **high-performance backend** with NodeJS and PostgreSQL, optimizing APIs for seamless **CRUD operations**. Built a secure, real-time exam system using **SocketIO**, with **JWT authentication** and **bcrypt hashing** for secure logins. Designed a **scalable architecture** with ReactJS and ExpressJS, ensuring **optimal performance, security, and user experience**. *Live Demo:* Click Here!
- ***Tools Used:*** *ReactJS, Tailwind CSS, NodeJS, ExpressJS, PostgreSQL*

2. *NewsHub - Personalized News Aggregator*   January 2025 – April 2025

- Developed a **NodeJS** application that captures user news history, storing articles and sources without duplication. Implemented a **content-based recommendation system** using keywords, categories, and source preferences. Optimized MongoDB schema design for **efficient history tracking and personalized news suggestions**. *Live Demo:* Click Here!
- ***Tools Used:*** *Vite, CSS, NodeJS, ExpressJS, MongoDB*

3. *Expense Management System*   August 2024 – November 2024

- Developed a full-stack expense management system using the **MERN stack**, enabling efficient expense tracking and categorization. **Integrated ChartJS** for **interactive data visualization, providing insights into spending patterns**, with a **responsive and scalable UI** for a seamless user experience.
- ***Tools Used:*** *ReactJS, CSS, NodeJS, ExpressJS, MongoDB*

Position of Responsibility

1. *Computer Society of India (CSI)* *(Co-Commitee Member)*   September 2024 – Present

- Contributed to the Aptitude Test Portal for secure assessments and organized CODECRAFT, a DSA, UI/UX, and CTF triathlon, integrating QR band authentication to foster a tech-driven community.

2. *RHYTHM 2024 – Cultural Fest* *(Volunteer in Digital Creative Team)*   February 2024 – April 2024

- Designed Instagram posts, celeb bytes, and certificates to enhance branding for 'HOGWARTS – Embrace the Magic Within You,' collaborating with the creative team to deliver engaging digital content.

Skills

Technologies: MongoDB, MySQL, HTML5, CSS, JavaScript, ReactJS, NodeJS, Tailwind CSS, Power BI

Certifications:
1. *Node.js, Express, MongoDB & More: The Complete Bootcamp* - Udemy | Apr 2025
2. *The Joy of Computing Using Python* - NPTEL SWAYAM MHRD | Nov 2024
3. *Demystifying Networking* - NPTEL SWAYAM MHRD | Oct 2024
4. *JavaScript Algorithms and Data Structures (Beta)* - freeCodeCamp | Oct 2024
5. *Responsive Web Design* - freeCodeCamp | Sep 2024
6. *Programming, Data Structures and Algorithms using Python* - NPTEL SWAYAM MHRD | Apr 2024