

Madhumathi

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Professional Summary

MERN Stack Developer with expertise in building scalable web applications and optimizing backend performance. Skilled in Node.js, Express.js, MongoDB, and React, with a strong focus on REST API development and database design. Committed to delivering efficient solutions that enhance user experience and drive business growth.

Tools & Technologies

- **Frontend:** HTML, CSS, JavaScript, React, Bootstrap, Redux
- **Backend:** Node.js, Express.js, REST APIs, CRUD operations
- **Databases:** MongoDB (Mongoose Schema & Models)
- **Programming:** JavaScript, Java
- **Tools:** Git, GitHub, VS Code, Postman, ThunderClient, Figma, Canva, Adobe Photoshop, Netlify, Render
- **Concepts:** MERN Stack Development, Agile, SDLC

Projects

MERN Stack Quiz Application (Backend Development)

[GitHub Link](#)

Technologies: Node.js, Express.js, MongoDB, Postman

- Developing a backend system for a quiz application using the MERN stack.
- Implemented CRUD operations with a well-structured Mongoose schema, reducing database query time by 30%.
- Tested and validated API endpoints using Postman & ThunderClient, ensuring 99% bug-free API performance before deployment.

Job PathFinder Website – MERN Stack Job Portal

[Live](#) | April 2025 – June 2025

Stack: MongoDB, Express.js, React.js, Node.js, JWT, Multer

- Built a role-based job portal for Job Seekers, Employers, and Admins with secure JWT auth.
- Created 25+ REST APIs and optimized MongoDB schemas, boosting performance by 30%.
- Integrated resume upload via Multer reducing file handling time by 40%.
- Developed an Employer Dashboard to manage job posts and track 500+ applications.
- Achieved 99% bug-free backend with thorough testing using Postman and ThunderClient.

Portfolio Website (Ongoing)

[GitHub Link](#)

Technologies: React, Vite, Bootstrap

- Developing a fully responsive portfolio website to enhance mobile accessibility by 40%, ensuring seamless viewing across all devices.
- Building and optimizing interactive components in React, reducing code redundancy by 30% and improving UI consistency.
- Leveraging Vite for faster builds, achieving 50% shorter development time and enhancing initial load speed by 40%.

Certifications

- **Full Stack Web Development using MERN Technology** – Entri Elevate (April 2024 – Present)
- **Certification in Generative AI** – GUVI, AICTE (September 2024)

Interests

Interested in creative design, crafting visually compelling posters, and exploring new perspectives through reading books.

Professional Experience

Lecturer

K S Polytechnic | Bengaluru, India

June 2023 - June 2025

- Enhanced practical learning by incorporating real-world animation projects and web development, leading to a 40% increase in student project completion rates.

Associate Software Engineer Trainee

Baryons Software Solutions | Bengaluru, India

Sept 2022 - Jan 2023

- Designed high-performance, responsive UIs with React, enhancing user engagement and experience.
- Developed and optimized modular React components, improving code reusability and maintainability by 40%.

Education

Bachelor of Engineering (B.E.) in Computer Science and Engineering

K S School of Engineering and Management | Bengaluru, India (June 2018 – May 2022)