MUGILANE D

MERN STACK DEVELOPER

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OBJECTIVE

"MERN Stack Developer with one year of hands-on experience in building scalable and efficient applications. Passionate about solving complex problems, optimizing performance, and continuously expanding my technical expertise. A self-motivated and adaptable developer, committed to delivering high-quality solutions and staying updated with the latest industry trends."

EXPERIENCE

Yoho Technologies, Chennai | MERN Stack Developer   **Sep 2024 – present**

- Developed **scalable and high-performance RESTful APIs**, ensuring **efficient** data handling and seamless integration.

- Designed and **optimized database models**, enhancing performance and reducing query execution time.

- Integrated **secure JWT Authentication** and implemented **role-based authorization**, ensuring structured user access control.

- Automated **cross-platform operations**, streamlining workflows and improving system efficiency

VCodeWonders, Puducherry | MERN Stack Internship   **Aug 2023 – Nov 2023**

- Completed a **three-month internship** focused on frontend development, strengthening expertise in UI/UX design principles.

- Developed responsive and dynamic web interfaces using HTML, CSS, React.js, and Bootstrap, ensuring cross-device compatibility.

- Applied **mobile-first design strategies**, optimizing layouts for seamless user experience across different screen sizes.

TECHNICAL SKILLS

- **Backend:** Node.js, Express.js.
- **Frontend:** React.js, React Native, HTML, CSS, Tailwind CSS, Bootstrap.
- **Database:** MongoDB, MongoDB Atlas, Mongoose, AWS S3.
- **Other Tools:** Git, GitHub, Postman, Docker (if applicable), CI/CD pipelines.

EDUCATION

Christ College of Engineering and Technology, Puducherry.   2020 – 2024

Bachelor of Technology(Computer Science Engineering) | CGPA **8.42** of 10

PROJECTS

Learning Management System | Yoho Technologies

Description: Developed a **high-performance** learning platform enabling institutes to **seamlessly** manage both online and offline classes, ensuring **scalability, security, and smooth user experience**.

Role & Responsibilities:
- Designed and **optimized** RESTful APIs for high-traffic environments, ensuring **fast response times** and **reliable data flow** across platforms.
- **Architected** database models with robust validation schemas, optimizing query performance and minimizing redundancy.
- Implemented **automated workflows**, reducing manual intervention and increasing efficiency across cross-platform operations.
- Integrated **third-party services** such as payment gateways and cloud storage to **enhance functionality** and **improve accessibility**.

Technologies Used:
- **Frontend:** React.js (Hooks, Redux, Context API), Tailwind CSS, Bootstrap
- **Backend:** Node.js, Express.js, JWT Authentication, WebSockets
- **Database:** MongoDB Atlas, Mongoose, Redis for caching
- **Cloud & DevOps:** AWS (S3, EC2, Lambda), Docker, CI/CD pipelines

Key Achievements & Impact:

- **Boosted system efficiency by optimizing API responses, achieving a 30%** reduction in **load time and enhancing user experience.**
- Improved security **by implementing** JWT authentication**, securing** user data and access permissions **across multiple roles.**
- Handled role-based access control **(Admin, Instructor, Student) with precision, ensuring** smooth role-specific experiences **within the platform.**
- **Developed** real-time notifications and updates **using WebSockets, keeping users engaged with live interactions**

Skills Gained:

- **Advanced MERN Stack proficiency** – Writing scalable and optimized code.
- **System design & architecture** – Developing end-to-end full-stack solutions efficiently.
- **Error handling & debugging expertise** – Improved ability to tackle complex runtime issues.
- **Cross-functional collaboration** – Worked closely with designers and product managers to refine user experience

Challenges Overcome:

- Designed **RESTful APIs** for a **multi-role system** ensuring **consistent performance** and seamless integration.
- **Optimized database queries** for **high-volume data processing**, enhancing system speed and responsiveness.
- **Implemented microservices architecture** for modular service management, improving maintainability and **scalability**.

Static Website | VCodeWonders

Description: Developed a professional and visually appealing **static website** for a company, ensuring **a responsive design**, optimal user experience, and cross-browser compatibility.

Role & Responsibilities:

- Designed and implemented **pixel-perfect** responsive web pages using HTML, CSS, and JavaScript, ensuring seamless performance across devices.

- Integrated **modern CSS frameworks** like Bootstrap and Tailwind CSS to enhance aesthetics and usability.
- Optimized website structure and styling for **better accessibility and faster load times.**
- Applied **best practices in front-end development,** ensuring clean, maintainable, and scalable code.

Technologies Used:
- **Frontend:** HTML, CSS, JavaScript
- **Styling Frameworks:** Bootstrap, Tailwind CSS
- **Development Tools:** Git, GitHub, VS Code

Key Achievements & Impact:
- **Created a** mobile-friendly **and** SEO-optimized **static website, improving reach and visibility.**
- Enhanced design consistency by implementing scalable UI components using CSS frameworks.
- **Developed a** structured and maintainable codebase**, improving future scalability and updates.**

Skills Gained:
- **Advanced front-end development expertise** – Deepened understanding of responsive design and user experience.
- **Performance optimization techniques** – Learned how to improve loading speed and styling efficiency.
- **Collaboration & teamwork** – Worked alongside designers and stakeholders to align business goals with web development strategies.

Publications

Hosting portfolio in git

Website Link: https://mugilane.github.io/portfolio/