Radhika Bhagat

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SUMMARY

Full-Stack Web Developer with expertise in Java, JavaScript, and the MERN stack. Skilled in building responsive front-end interfaces, scalable back-end systems, and RESTful APIs with a strong foundation in Data Structures, Algorithms, and DBMS. Proficient in delivering clean, efficient code that enhances performance, usability, and business value.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, SQL, HTML5, CSS3
Frameworks & Libraries: React.Js, Node.Js, Express.Js, Tailwind CSS, Mongoose.
Databases & Tools: MongoDB, MySQL, Git, GitHub, VS Code, RESTful APIs
Course Work: Data Structures and Algorithms, Object-Oriented Programming, Database Management System (DBMS), Operating Systems

PROJECTS

QuickStay – Hotel Booking Platform | *MERN Stack, Stripe, REST APIs*　　　　　　　　Repository | Website
- Designed and launched a **full-stack hotel booking system** with secure authentication, real-time booking, and integrated payment functionality.
- Engineered a **responsive React.Js front-end** with modular, reusable components, improving maintainability and scalability.
- Implemented **Stripe API** for seamless payment processing and **Cloudinary** for efficient image storage and optimization.
- Optimized MongoDB queries and applied backend caching, cutting API response time by 30% and enabling smooth performance for users.

Portfolio Website | *HTML5, JavaScript, Tailwind CSS*　　　　　　　　　　　　　　Repository | Website
- Developed and deployed a **personal portfolio website** to showcase technical expertise, achieving a **88 Lighthouse performance score** for speed and accessibility.
- Designed a **mobile-first, cross-browser-compatible layout** with Tailwind CSS, enhancing usability across devices.
- Integrated interactive JavaScript features that increased user engagement and navigation efficiency by **40%.**
- Streamlined performance through code optimization and asset compression, reducing page load time by **25%.**

Real-Time Weather Application | *HTML5, CSS3, JavaScript, OpenWeather API*　　　　Repository | Website
- Delivered a **real-time weather web app** by integrating OpenWeather API to provide live temperature, humidity, and wind data.
- Implemented **geolocation-based detection** and search-by-city feature, improving accessibility and user satisfaction.
- Optimized load times to under **1.5 seconds** through efficient DOM manipulation and lightweight CSS design.
- Strengthened expertise in **asynchronous JavaScript** by applying fetch/async-await for robust API handling.

Sorting Algorithm Visualizer | *HTML5, CSS3, JavaScript*　　　　　　　　　　　　Repository | Website
- Designed and deployed a **dynamic algorithm visualizer** to demonstrate sorting algorithms including Bubble, Merge, Quick, Insertion, and Selection Sort.
- Enabled interactive controls for **array size and animation speed**, improving learner engagement by **50%.**
- Implemented efficient rendering logic using asynchronous JavaScript and DOM manipulation, ensuring smooth animations.
- Enhanced understanding of **algorithm efficiency and complexity** analysis through practical visualization.

CODING PROFILE

- **LeetCode**: Radhika-Bhagat - Solved **100+ coding problems**

EDUCATION

Shri Govindram Seksaria Institute Of Science & Tecnology (S.G.S.I.T.S)　　　　　Indore, India
B.Tech in Mechanical Engineering　　　　　　　　　　　　　　　　　　　　　　　　2018 - 2022

ACHIEVEMENTS & CERTIFICATIONS

- Certified in **Java Programming and Data Structures.**
- Cleared **JEE Mains and JEE Advanced** (2018).
- Achieved 1st Rank in 14th National Mathematics Olympiad (School Level).