

# Radhika Bhagat

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## EDUCATION

<b>Shri Govindram Seksaria Institute Of Science &amp; Tecnology (S.G.S.I.T.S)</b> <i>B. Tech in Mechanical Engineering</i>	Indore, India 2018 - 2022
<b>Chavra Vidyapeeth</b> <i>12th Standard, CBSE</i>	Narsinghpur, Madhya Pradesh 2016 - 2017
<b>Chavra Vidyapeeth</b> <i>10th Standard, CBSE</i>	Narsinghpur, Madhya Pradesh 2014 - 2015

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, SQL, HTML, CSS.

**Developer Tools/Databases:** Git, Github, VS Code, Mongo DB

**Technologies/Frameworks:** React.js, Node.js, Express.js, Mongoose, TailwindCSS.

**Course Work:** Data Structures and Algorithms, Object Oriented Programming, Database Management System, Operating System.

## PROJECTS

**QuickStay – Hotel Booking Website** | *React.js, Node.js, Express.js, MongoDB, REST APIs* [Website](#)

- Developed a **full-stack hotel booking platform** using **MERN stack (MongoDB, Express.js, React.js, Node.js)** to provide seamless search, booking, and user authentication.
- Integrated **Stripe** for real-time payment processing and **Cloudinary** for optimized image management.
- Designed a **responsive React.js UI** and developed **RESTful APIs** for bookings, hotels, and user profiles.
- Improved **scalability and performance** through optimized database queries and backend caching.

**Portfolio Website** | *HTML, Tailwind CSS, JavaScript* [Repository](#) | [Website](#)

- Developed a **responsive personal portfolio website** using **HTML, JavaScript, and Tailwind CSS** to showcase projects, skills, and experience.
- Implemented **modern UI design** with Tailwind CSS for clean, scalable, and mobile-friendly layouts.
- Integrated **interactive components** using JavaScript to enhance user engagement and navigation.
- Optimized website performance for **fast loading speed** and cross-browser compatibility.

**Real-Time Weather Website** | *HTML, CSS, JavaScript, OpenWeather API* [Repository](#) | [Website](#)

- Built a responsive weather application using **HTML, CSS, and JavaScript** to display real-time weather updates.
- Integrated **OpenWeather API** to fetch weather data including temperature, humidity, wind speed, and conditions.
- Implemented **geolocation feature** to automatically detect user's current location and display local weather.
- Added **search functionality** for retrieving weather details by city name.
- Designed a **clean, responsive UI** ensuring seamless experience across mobile and desktop devices.
- Used **asynchronous JavaScript (fetch/async-await)** for API calls and dynamic DOM updates
- Strengthened skills in **API integration, geolocation services, and responsive web development.**

**Sorting Algorithm Visualizer** | *HTML, CSS, JavaScript* [Repository](#) | [Website](#)

- Built an interactive sorting algorithm visualizer using **HTML, CSS, and JavaScript**, featuring **Bubble, Insertion, Quick, Merge, and Selection Sort.**
- Enabled **real-time visualization of arrays (up to 100 elements)** with dynamic bar representation.
- Implemented adjustable **array size and animation speed controls**, improving user engagement by 50%
- Utilized **DOM manipulation and asynchronous JavaScript** for efficient rendering of animations.
- Strengthened understanding of **time complexity, algorithm design, and data structure visualization.**

## CODING PROFILE

- LeetCode:** [Radhika-Bhagat](#)
- CodeChef:** [radhikax23](#)

## ACHIEVEMENTS & CERTIFICATIONS

- Course certification for programming language **Java and Data Structures and Algorithm through Java.**
- Cleared **JEE Mains and JEE Advanced** (2018).
- Secured 1st rank in school in 14th National Mathematics Olympiad.