

# Radhika Bhasin

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## Education

<b>Vellore Institute of Technology</b> <i>BTech in Computer Science and Engineering</i>	CGPA: 9.04	2022 – 2026 Bhopal, Madhya Pradesh
<b>Guru Tegh Bahadur Public School</b> <i>CBSE (XII)</i>	Percentage: 98.8%	July 2022 Meerut, Uttar Pradesh
<b>Guru Tegh Bahadur Public School</b> <i>CBSE (X)</i>	Percentage: 95.2%	July 2020 Meerut, Uttar Pradesh

## Skills

**Programming Languages:** C++ (Primary), Python, JavaScript

**Web Development:** React, Node.js, Express, RESTful APIs, HTML5, CSS3, Tailwind, Bootstrap, EJS

**Tools, Databases & Cloud:** MongoDB, MySQL, Git/GitHub, Docker, AWS (Certified Cloud Practitioner)

## Projects

### StudyNotion – Full Stack Ed-Tech Platform Aug 2025

Tech Stack: MERN, JWT Tokens, REST API, Bcrypt, Nodemailer, Cloudinary, Tailwind CSS

- Designed and developed a full-stack e-learning platform using the **MERN stack**, allowing instructors to create, upload, and manage courses while enabling students to browse, enroll, and access video lectures through a responsive and modern UI built with **Tailwind CSS**.
- Implemented secure user authentication and authorization using **JWT tokens, role-based access control, and Bcrypt** for password hashing, along with a password recovery system using **Nodemailer**.
- Integrated **Cloudinary** for efficient storage and delivery of course images and videos, improving media handling and content management within the platform.
- Deployed the application with the **frontend hosted on Vercel** and the **backend/API hosted on Render**, ensuring reliable, scalable, and publicly accessible production deployment.

### CodeCanvas – Full Stack DSA Learning Platform Dec 2024

Tech Stack: Node.js, Express.js, EJS, CSS, Javascript, Motion Canvas

- Developed CodeCanvas, a full-stack e-learning platform for topic-wise DSA learning using interactive animations and hands-on coding exercises.
- Built backend functionality using **Node.js, Express.js, and EJS**, enabling dynamic server-side rendering and smooth user interactions.
- Implemented interactive algorithm visualizations with **Motion Canvas** (a TypeScript library) and integrated **Google Gemini API** to generate personalized quizzes and coding problems.
- Deployed the **Docker-containerized backend** on an **AWS EC2 instance**, setting up **Security Group** inbound rules to allow HTTP traffic and configuring port mappings between the host and Docker containers.

### Razorpay Clone May 2024

Tech Stack: HTML, Tailwind CSS

- Developed a responsive Razorpay clone using **HTML and Tailwind CSS**, replicating 12+ core UI features.
- Implemented a clean and modern user interface with **100% mobile responsiveness**, ensuring seamless experience across all device sizes.

## Certification

AWS Certified Cloud Practitioner - Verified Dec 2025

## Extra-curriculars & Achievements

- Problem Solving Skills:** Solved 250+ problems on platforms like LeetCode and Coding Ninjas, focusing on data structures and algorithms.
- Smart India Hackathon 2024:** Advanced to Internal Round 1 and worked in a 6-member team, coordinating tasks, managing responsibilities, and collaborating closely to build solutions focused on women's safety.
- Volunteer – FLAMES Event, Data Science Club (October 2023):** Worked as part of the event management team to handle participant registrations, organize logistics, and coordinate with other volunteers to ensure the smooth execution of the event.