

Aryan nagar

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SKILLS

Programming Languages

Java, JavaScript

Backend

Node.js, Express.js, SQL, MongoDB, REST APIs, Jest, Cloudinary, Passport.js, Stripe

Non-Technical

Problem Solving, Adaptability, Teamwork, Time Management, Critical Thinking

Language

Hindi, English

Frontend

HTML, CSS, JavaScript, React, Redux, Bootstrap, Tailwind CSS, Material-UI

Tools & Platforms

Git, GitHub, Visual Studio Code, Postman, Microsoft Azure, npm, Render, Netlify, Vercel, AWS

Core Technical

Data Structures and Algorithms (DSA) in Java, Object Oriented Programming (OOP), Database Management System (DBMS)

PROJECTS

E-commerce Website, Full-Stack Web Application 📄

- Designed and developed a full-stack e-commerce website with core features including **product listings**, **product details**, **shopping cart**, and **secure checkout with payment integration**.
- Integrated **Stripe** for secure card payments, along with support for cash payment options.
- Developed an **Admin Panel** for managing products, orders, and users, with robust **user authentication**.
- Added **order confirmation** and **password reset** functionalities using **Nodemailer**.
- Enabled user-specific profiles and order histories, enhancing the overall user experience.
- Utilized **MongoDB Atlas** for scalable database management and deployed the application on **Vercel**.

Airbnb, Full-Stack Web Application 📄

- Developed a full-stack **Airbnb clone** using **HTML**, **CSS**, **Bootstrap**, and **JavaScript** for the frontend, and **Node.js**, **Express.js**, and **MongoDB** for the backend with **MVC architecture**.
- Implemented **user authentication** via **Passport**, **CRUD operations**, **signup/login functionality**, **Mapbox API** integration, and a **review system**.
- Used **Joi** middleware for form validation and error handling.
- Integrated **Cloudinary** for media storage and managed the database using **MongoDB Atlas**.
- Hosted the application on **Render** for production.

Backtracking Sudoku 📄

- Designed a method to **validate** if a number can be placed in a specific cell without violating **Sudoku rules** (uniqueness in the respective row, column, and 3x3 subgrid).
- Developed a **Sudoku Solver** using the **backtracking algorithm**, enabling automatic solving of Sudoku puzzles through a **step-by-step, recursive approach**.
- Utilized **recursion** to explore all possible solutions and efficiently **backtrack** when encountering invalid configurations.

EDUCATION

Sagar Institute of Research & Technology, Bhopal
Bachelor of Technology in Electronics and Communication Engineering

Jun 2021 – May 2025

C L Arya Higher Secondary School, Mandideep
Senior Secondary (XII), MP Board

Mar 2020 – Feb 2021

ACHIEVEMENTS

- Solved **100+ problems** on coding platforms such as **LeetCode**, **HackerRank**, and others, demonstrating strong problem-solving and algorithmic skills.
- Designed and developed multiple projects on **GitHub**, with live deployments on platforms like **Render**, **Vercel**, and others, demonstrating practical experience in full-stack development.

CERTIFICATES

- Certificate of Data Structures and Algorithms in Java. 📄
- Certificate of Web Development. 📄