HARSHIT ARYA

Kharar, Chandigarh

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EDUCATION

Chandigarh University ,Mohali   **2023 − 2027**
*B.E - Computer Science and Engineering - **CGPA** - **7.76***   *Mohali, Punjab*

College Of Commerce Arts and Science   **2020 − 2022**
Intermediate -PCM   *Patna, Bihar*

PROJECTS

Facility Management System ⧉ | React, Node.js, TypeScript, TailwindCSS)   **NOV-DEC 2025**

- Engineered a robust Facility Management System incorporating **role-based access control** and **workflow automation** which elevated and accelerated booking processes by **50%**.
- Boosted Operational efficiency by implementing a role-based access control system that boosted booking management effectiveness by **50%**

Shortest Path Algorithm Visualization Platform ⧉ | (MERN, DSA)   **OCT-NOV 2025**

- Engineered a **production-ready graph visualization platform** using **React**, **Canvas**, and **Tailwind**, enabling real-time execution of **Dijkstra**, **Bellman–Ford**, and **A*** with **40% faster path rendering** compared to initial prototypes.
- Developed a **high-performance backend** with **Node.js/Express**, implementing **weighted graph processing**, heuristic optimization, and **JWT-based authentication**, reducing API response latency by **35%**.
- Implemented advanced graph-editing and analytics features including **drag-and-drop nodes**, weighted edges, and **MongoDB persistence**, enabling algorithm comparison metrics and improving user workflow efficiency by **50%**.

QuickCart –E-Commerce Web Application ⧉ | JavaScript, HTML5, CSS3   **JAN-FEB 2025**

- Developed a **feature-rich e-commerce web application** using **React** and **Tailwind CSS**, implementing responsive buyer and seller interfaces and achieving **100% mobile compatibility** during testing.
- Managed application-wide state using the **React Context API** to support cart, checkout, and seller workflows, simplifying state handling and reducing redundant component logic by **30%**.
- Built modular **seller dashboards** and dynamic storefront components (hero sliders, product views, order flows) using **reusable UI components** and clean architecture principles.

TECHNICAL SKILLS

Languages: C, Java , Python
Technologies/Frameworks: React, Node.js, Express, HTML5, CSS3, Responsive Design, Auth.js, Prisma, Firebase, PostgreSQL
Developer Tools: Git, GitHub, VS Code, Postman
CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, DBMS
Cloud & Other Skills: REST APIs, Docker (basic)

CERTIFICATIONS

- Foundation of Project Management — Google
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate - Oracle

EXTRACURRICULAR

- Algorithm Coding Club Member — Participated in weekly DSA discussions, coding challenges, and peer learning sessions, strengthening problem-solving, analytical reasoning, and competitive programming skills.
- Tech Fest Coordinator — Led the planning and execution of workshops and speaker sessions, demonstrating effective stakeholder management, event coordination, and leadership abilities.
- Winner of Code Fusion Competition
- **Soft Skills:** Communication, teamwork, leadership, problem-solving, analytical thinking, adaptability