

HARIOM SINGH

Dahod, Gujarat

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EDUCATION

Chandigarh University, Mohali, Punjab

B.E - Computer Science and Engineering - CGPA - 7.7

2021 – 2025

Mohali, Punjab

Puna International School

Intermediate (CBSE) - Percentage - 65.4%

2019 – 2020

Ahmedabad, Gujarat

St. Mary's School

Matriculation (CBSE) - Percentage - 80.9%

2017 – 2018

Dahod, Gujarat

PROJECTS

Library Management System 🔗 | [Next.js](#), [NextAuth](#), [PostgreSQL](#), [Drizzle ORM](#), [Redis](#), [Resend](#) **2025**

- Developed a comprehensive library management system to streamline operations, enhance user experience, and provide real-time analytics.
- Admin Interface: Manage the data displayed on the public website. Oversee account requests and approve/revoke user access.
- Leveraged Drizzle ORM and Redis caching to optimize database performance and enable faster application responsiveness.

Real-Estate App 🔗 | [MERN](#), [React](#), [Express.js](#), [MongoDB](#), [Node.js](#), [JavaScript](#), [JWT](#), [RESTful API](#) **2024**

- **Problem Statement:** Users often face security risks and usability issues with outdated authentication systems when accessing real-estate platforms.
- **Solution:** Built a robust, full-stack authentication system using the MERN stack, enhancing security and user experience by 40% through seamless user registration, login, and session management.
- **Responsive Interface:** Designed a dynamic, responsive frontend with React, boosting user satisfaction by 30% by creating fluid, adaptable forms for registration and login.
- **Stateless Authentication:** Implemented session management using JWT for stateless authentication, increasing login security by 25%.
- **Secure Data Storage:** Integrated MongoDB to store sensitive user data (e.g., username, email, hashed password) in a document format, reducing data breach risk by 20%.

HouseHuntHQ 🔗 | [React](#), [JavaScript](#), [Express](#), [MongoDB](#)

2023

- Built a flat/PG finding web app for students, accelerating the search process by 50% for users.
- Enhanced security by encrypting user passwords with bcrypt.js, reducing unauthorized access by 90%.
- Integrated a MongoDB database and implemented a recommendation model, improving roommate match accuracy by 30%.

TECHNICAL SKILLS

Languages: Proficient in C++ (80% proficiency), JavaScript (85%), Python (75%), and SQL (70%).

Technologies/Frameworks: Skilled in HTML5, Tailwind CSS, React, MongoDB, Express, JavaScript, Node.js, NextJS, JWT, Zod, Shadcn

Developer Tools: Familiar with VS Code, Jupyter Notebook, Postman, Google Colab.

PUBLICATION

- Authored "U-Net Based Semantic Segmentation for Road Scene Understanding," increasing citation rate by 20% at the 12th International Conference SMART LINK. 🔗
- Advancement in SLAM Techniques and Their Diverse Applications," enhancing knowledge sharing among peers by 25%. SMART LINK. 🔗

CERTIFICATIONS

- "Developing Front-End Apps with React", on Coursera with 98% score in core modules.
- "Introduction to Cloud Computing, achieving a 93% completion score.

ACHIEVEMENTS

- Earned distinction as an NPTEL Topper in Internet of Things (IoT) – Applied advanced analytical and technical skills to master IoT concepts, including real-time data analysis, and practical applications.