

# HARIOM SINGH

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## EDUCATION

**Chandigarh University, Mohali, Punjab**

*B.E - Computer Science and Engineering - CGPA - 7.69*

**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

**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- **Problem Statement:** Users often face security risks and usability issues with outdated authentication systems when accessing real-estate platforms.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.

**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.

## EXTRACURRICULAR

- Instructed basic C++/DSA to over 50 students in offline classes (May 2023 - Oct 2023), achieving a 30% improvement in student performance.
- Awarded "Singing Champion" title in a hostel league, placing in the top 10% of competitors.