Harsh Parmar

Ahmedabad, India ✉ parmarharsh901@gmail.com 📞 +91 63538 05608 ⌂ hrsh-hp ⊞ Harsh Parmar

Passionate full-stack developer specializing in **scalable and dynamic applications** by integrating **intuitive front-end design** with **robust back-end functionality**. Experienced in **API development, database management, and real-time communication systems**, with a strong foundation in **WebRTC, WebSockets, and cloud-based solutions**. Adept at **performance optimization, security implementation, and cross-platform compatibility**, ensuring efficient and high-quality software development. **Adaptable to evolving technologies**, continuously expanding expertise in modern frameworks and tools.

WORK EXPERIENCE

WEB DEVELOPMENT INTERN   **CREART SOLUTIONS, JUL 2021 - MAR 2022**

- **Developed and optimized a full-stack Restaurant Management System**, streamlining order processing, inventory tracking, and customer management, improving operational efficiency.
- **Enhanced database performance in MySQL and PHP**, reducing query execution time and ensuring **faster data retrieval**.
- Implemented a **responsive UI using HTML, CSS, and JavaScript**, ensuring seamless user experience across devices.
- **Strengthened full-stack development skills** by integrating **frontend, backend, and database management** to deliver a **functional and scalable application**.

INDUSTRIAL AND FREELANCING PROJECTS

SMARTROLL   **L.D. College Of Engineering | SSIP**
Technology Used - Django, ReactJS, PostgreSQL, Websockets, GPS , Web Workers, Docker   hosted at - https://smartroll.ldce.mnv-dev.live

- **Developed a network-based smart attendance system** using **Django, ReactJS, PostgreSQL, WebSockets, and GPS**, automating attendance tracking for **500+ students** and reducing manual effort by **70%**.
- **Deployed at L.D. College of Engineering and funded by SSIP Gujarat**, ensuring scalability and reliability with real-time authentication and geo-restricted attendance marking.

FACE RECOGNITION SYSTEM   **L.D. College Of Engineering | GTU**
Technology Used - Python, Django, NumPy, OpenCV, PyBase64, Face-Recognition Model, Docker

- **Engineered a real-time facial recognition system** using **Django, OpenCV, and Face-Recognition Model**, achieving **high-accuracy detection** for identity verification and access control.
- **Integrated real-time webcam capture and continuous frame processing**, enabling automated attendance tracking and security authentication in institutional and enterprise environments.
- **Designed a robust Django-powered backend** for efficient image processing, ensuring seamless facial recognition and instant response delivery for multiple users.

PRIVATEHUB   **L.D. College Of Engineering | GTU**
Technology Used - Python, Django, WebSockets, WebRTC, Redis,

- Developed a **real-time video conferencing platform** using **WebRTC, Django Channels, and Redis**, enabling **low-latency, peer-to-peer video communication** with multi-user support.
- Optimized **WebRTC signaling and ICE candidate exchange**, ensuring stable connections across varying network conditions while reducing latency for seamless video streaming.
- Designed a **responsive front-end with HTML, CSS, JavaScript, and Bootstrap**, providing an intuitive user experience with a dynamic grid-based video layout that adjusts based on the number of participants.

SKILLS & ACHIEVEMENTS

Programming Languages: Python, C/C++, SQL (PostgreSQL, MySQL, Oracle), JavaScript, PHP, HTML/CSS
Frameworks & Libraries: Django, Pandas, NumPy, Openpyxl, WebRTC
Tools & Technologies: Git, GitHub, Docker, Jupyter Notebook, Wireshark, Postman, WebSockets, REST API

- Received **grant** from Student Startup and Innovation Policy (SSIP) – **SSIP Gujarat**
- **Runner-up** at Smart India Hackathon**(SIH) 2023** (AICTE)

EDUCATION

Bachelors in Computer Engineering   L.D. College Of Engineering • Ahmedabad, Gujarat • 2025
Diploma in Computer Engineering   R.C. Technical Institute • Ahmedabad, Gujarat • 2022