

HARSH GARG

CONTACT

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TECHINICAL SKILLS

- Programming Languages: C/C++, Python, Java
- Web Technologies: MERN, NextJS, Flask, Tailwind, HTML/CSS
- Cloud & DevOps: AWS, Git/GitHub
- Other Tools: PostgreSQL

EDUCATION

2022 - 2026

SRM INSTITUTE OF SCIENCE AND
TECHNOLOGY, CHENNAI

B.Tech Computer Science Engineering
with specialization in Cloud
Computing

2020 - 2021

RYAN INTERNATIONAL
SCHOOL, JAIPUR

High School Diploma

LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- French (Basics)

SKILLS

- Project Management
- Leadership
- Effective Communication
- Critical Thinking
- Problem-solving Expert
- Multitasking Abilities

PROFILE

Versatile full-stack developer with deep expertise in modern web frameworks, data processing, and real-time analytics. Experienced in building scalable solutions, from an e-commerce platform for Blooming to a digital twin system at the SIH hackathon. Adept at full-cycle development, system integration, and optimizing performance for high-traffic applications

WORK EXPERIENCE

Blooming

2024 - 2025

Full-Stack Intern

- **Developed and deployed** a full-stack e-commerce website with an admin panel.
- **Led the entire development lifecycle**, ensuring scalability and seamless UX.
- **Optimized performance and security**, transitioning the business online.

PROJECTS

EcoBin

Tech Stack: ESP32-CAM, Python, Next, Node.js, Google Maps API, Tailwind, PostgreSQL

- Developed an **IoT-enabled smart bin** to auto-sort waste into **biodegradable, recyclable, and non-recyclable** categories.
- Built a **real-time monitoring system** for bin fill levels and optimized waste collection using **data analytics**.
- Created a **web app for residents and drivers** and a **dashboard for municipalities** to track waste, optimize routes, and improve recycling.
- Integrated **Google Maps API** for **route optimization**, reducing fuel costs and travel time.

Mr. Montage - AI-Powered Valorant Montage

Tech Stack: YOLO, Python, Flask, MoviePy, Firebase

- Developed an **AI tool** to create Valorant montages using a **YOLO object detection model** trained on a custom dataset.
- Integrated the model with a **Flask-based web interface** for seamless montage generation.
- Built a **Firebase database** to store previous uploads and montages.
- Created an **Instagram reel** showcasing the project, gaining **700+ views**.

Digital Twin for Powerhouse - Real-Time System Monitoring

• **Tech Stack:** Python, Machine Learning, React, Flask

- Developed a **digital twin web app** for power-generation systems with **real-time monitoring**.
- Implemented **ML-based anomaly detection** for efficient system tracking.
- **Qualified for SIH'23 internal hackathon** with this innovative solution.

Indian Tourism - Personalized Itinerary Planner

Tech Stack: React, Node.js, Firebase, Tailwind

- Created a **tourism app** that generates customized itineraries based on user preferences.
- **Finalist at Ossome Hacks** conducted by **SRM University, Chennai**.