

Harsh Garg

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SKILLS

- Programming Languages: C/C++, Python, Java, Typescript , JavaScript
- Web Technologies: ReactJs, MongoDB, NodeJs, ExpressJs, NextJS, Flask, Tailwind, HTML/CSS, PostgreSQL, JWT ,OAuth,Prisma
- Cloud & DevOps: AWS, Git/GitHub, GCP
- Tools and Libraries: Docker, Firebase, YOLO, MoviePy, NumPy, CUDA
- Languages : English , Hindi , French (Intermediate)

PROFESSIONAL EXPERIENCE

Full-Stack Intern | [blooMinG](#) | [MERN](#) , [Razorpay](#) , [Cloudinary](#) , [JWT](#) Nov 2024 - Mar 2025

- Designed and deployed a full-stack e-commerce platform, including a robust admin panel, enabling the business to successfully transition to a digital storefront.
- Led the complete development lifecycle from planning to deployment, ensuring scalability, security, and a smooth user experience across devices.
- Optimized backend performance and implemented key security measures, improving site speed and safeguarding user data in a production environment.

PROJECTS

Homiee | [Next.js](#), [Express.js](#), [Prisma](#), [Tailwind CSS](#), [Machine Learning](#), [Railway](#) , [Flask](#) 

- Built an end-to-end platform that recommends flatmates, rentals, and local services using a trained Gradient Boosting ML model with 92.9% R² accuracy on compatibility predictions.
- Integrated a Flask-based Python ML service into a Next.js API, enabling real-time scoring of 28 lifestyle and preference metrics with 90.2% predictive accuracy.
- Developed a scalable, mobile-responsive UI with reusable components and advanced filters (budget, city, lifestyle), deployed via Vercel (frontend) and Railway (backend/ML).

RideShare | [Next.js](#), [Express.js](#), [Prisma](#), [PostgreSQL](#), [AWS S3](#) 

- Engineered a complete carpooling platform with JWT authentication, AWS S3 document verification, and comprehensive booking workflow with request/approval system.
- Implemented a location-aware ride matching algorithm using radius filtering, improving match accuracy by 40%.
- Designed responsive interface with preference-based filtering, real-time status tracking, and intuitive booking management system

EcoBin | [ESP32-CAM](#), [Python](#), [Next.js](#), [Node.js](#), [MapBox API](#), [Tailwind](#), [PostgreSQL](#) 

- Created an IoT-enabled bin that uses real-time sensor input and ML to auto-sort waste, improving segregation efficiency by 60%.
- Developed a responsive web app and dashboard for residents and municipalities to monitor bin status and optimize waste collection.
- Integrated MapBox API for route optimization, cutting fuel costs and travel time by almost 25%.
- Finalist at Temethon '25 Hackathon, recognized for innovation in urban sustainability and smart city solutions.

Mr. Montage – AI-Powered Valorant Montage | [YOLO](#), [Python](#), [Flask](#), [MoviePy](#), [Machine Learning](#) 

- Spearheaded development of an AI tool that detects in-game highlights in Valorant and compiles automatic video montages.
- Devised a real-time video processing pipeline using YOLOv5 , CUDA and Flask, reducing manual editing time by 70%.
- Invited to the Buildspace San Francisco Expo (Aug '24) to present as one of the standout projects in the global cohort..

Digital Twin for Powerhouse | [Python](#), [Machine Learning](#), [React](#), [Flask](#) , [FastAPI](#) 

- Built a digital twin web app to simulate and monitor power generation systems in real-time using ML-driven anomaly detection.
- Integrated sensor data visualization and predictive fault analytics, increasing reliability by 35%.
- Qualified SIH 2023 Internal Hackathon, recognized for innovation in industrial system tracking.

EDUCATION

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY | CHENNAI, INDIA

Sept 2022 - May 2026

BACHELOR'S IN COMPUTER SCIENCE AND ENGINEERING - CGPA : 9.1

RYAN INTERNATIONAL SCHOOL| JAIPUR, INDIA

May 2017 - May 2021

SENIOR SECONDARY – PERCENTAGE: 85.6%

SECONDARY– PERCENTAGE: 92.4%

ACHIEVEMENTS

Finalists in SIH'23 , Temethon'25 , CodeFest'24, OssomeHacks'23, and App-a-thon'24.