

Harsh Garg

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PROFESSIONAL EXPERIENCE

Full-Stack Intern | [blooMinG](#) | [MERN](#) , [Razorpay](#) , [Cloudinary](#) , [JWT](#) , [Tailwind](#) 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](#), [Render](#), [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 Render (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](#) , [YOLO](#)



- 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.

TECHNICAL SKILLS

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

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 AND CERTIFICATIONS

- Qualified SIH'23 Internal Hackathon.
- Finalist - Temethon'25, CodeFest'24, OssomeHacks'23, App-a-thon'24
- NPTEL Certification Programming in Java
- NPTEL Certification Introduction To Industry 4.0 And Industrial Internet Of Things
- Oracle Cloud Infrastructure 2024 Certified Foundations Associate