

HARSHAL SHIROLE

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Education

- Bachelor of Engineering – Information Technology (CGPA: 9.67) 2022 – 2026
Fr. C. Rodrigues Institute of Technology Vashi, Navi Mumbai

Experience

- **InfinityPool Finnotech – Remote Internship** June 2025 – Present
Software Engineering Intern – Agentic AI Workflows
 - Built **AI agents** using **Model Context Protocol (MCP)** and **LangGraph** for marketing automation and campaign simulations.
 - Leveraged **GPT-4**, **LangChain Agents**, and **MongoDB vector stores** to build persistent and goal-driven workflows.
 - Developed modules for **AI-driven content generation**, A/B testing simulations, and email campaign flows.
- **Web Developer Intern – FCRIT** March 2024
Fr. C. Rodrigues Institute of Technology – Vashi
 - Built and maintained an internal **Information Management System** for 1000+ students and staff using **PHP**, **MySQL**, and **JavaScript**.
 - Resolved over 50+ bugs and implemented new features based on feedback, improving user experience by **50%**.
- **Full Stack Development Intern – MIRA Advanced Engineering** Dec 2023 – Feb 2024
Bandra, Mumbai
 - Collaborated with senior developers on building **Employee** and **Reservation Management Systems**.
 - Gained hands-on experience in **Python**, frontend/backend architecture, and software documentation practices.

Projects

- **Sports Event Management Platform** 🐙 [Source Code](#) Nov 2024
Flask, MongoDB, Razorpay API, JavaScript
 - Built a full-stack web platform for **bidding-based sports event registrations** with secure payments via **Razorpay API**.
 - Used **MongoDB** to manage participants and event data with real-time updates.
 - Developed user-friendly **admin dashboards** to monitor registration status and manage teams.
- **Face Recognition Attendance System** 🐙 [Source Code](#) Jan 2025
Python, OpenCV, MongoDB
 - Developed a **real-time face recognition system** using **OpenCV** to automate attendance tracking.
 - Integrated with **MongoDB** for cloud-based storage of logs and student records.
 - Achieved **98% detection accuracy**, significantly improving reliability and efficiency.
- **Movie Recommendation System** 🐙 [Source Code](#) Mar 2025
Flask, Scikit-learn, TMDB API, FuzzyWuzzy
 - Built a **hybrid movie recommendation engine** using **content-based filtering** and fuzzy matching.
 - Integrated **TMDB API** to fetch real-time movie data and posters.
 - Designed a fully responsive UI using **HTML/CSS/JavaScript** for a seamless user experience.

Technical Skills

- **Languages:** Python, Java, C++, JavaScript, SQL, HTML/CSS
- **Frameworks:** Flask, React.js, Node.js, Django, .NET, REST APIs
- **Databases:** MySQL, MongoDB, Firebase
- **Tools & Platforms:** Git/GitHub, AWS, Postman, OpenCV, Dataiku
- **ETL & Data:** SQL Queries, Python Data Processing, MongoDB Pipelines
- **Agentic AI:** LangChain, GPT-4, LangGraph, MCP, Vector DBs

Leadership & Volunteering

- **Sponsorship Head – AlgoZenith Club** May 2024 – Present
Fr. C. Rodrigues Institute of Technology, Vashi
 - Led a 4-member team to secure tech event sponsorships, increasing funding by **30%**.
 - Built partnerships with industry leaders and managed communications with sponsors.