

# Harshita Singh

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## PROFILE SUMMARY

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Penultimate-year Computer Science student with expertise in full-stack development, distributed systems, and AI/ML technologies. Proven track record of building scalable applications with experience in Agentic AI frameworks and multi-agent systems. Strong problem-solving skills with 300+ DSA solutions and hackathon victories. Passionate about creating impactful software solutions for large-scale professional networks.

## EDUCATION

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### B.E. Information Technology

2023 – 2027

Vivekanand Education Society's Institute of Technology (VESIT), Mumbai

SGPI: 9.6/10 (up to Sem 4) — Expected Graduation: May 2027

*Key Coursework: Data Structures & Algorithms, Distributed Systems, Machine Learning, Software Engineering, Computer Networks*

## TECHNICAL SKILLS

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**Programming:** C/C++, Java, JavaScript, Python, TypeScript

**Web Technologies:** React.js, Next.js, Node.js, Express.js, Angular, HTML5, CSS3

**AI/ML:** AutoGen, LangGraph, TensorFlow, PyTorch, NLP, Semantic Search

**Databases & Cloud:** MongoDB, MySQL, PostgreSQL, Firebase, AWS, Docker

**Tools:** Git, GitHub, Postman, Jenkins, KiCad, Linux/Unix, RESTful APIs

## PROFESSIONAL EXPERIENCE

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### Full Stack Developer Intern — Zemo Sportify Life, Navi Mumbai

June 2025 - Present

- Developing MERN stack sports venue booking platform with multi-role architecture (User, Vendor, Admin)
- Designed scalable database schemas and RESTful APIs using Express.js and MongoDB
- Built responsive React.js components and optimized backend queries, improving response time by 40%
- Collaborated in Linux environments for deployment and server-side scripting with 5+ member team

### Intern - Agentic AI — Tata Consultancy Services (TCS)

May 2025 - Ongoing

- Designed multi-agent workflows using **AutoGen AI frameworks**, enabling LLM collaboration on complex tasks
- Implemented graph-based learning with **LangGraph** to enhance contextual awareness and decision-making in AI systems
- Developed **MCP protocols** for robust agent communication and coordination in distributed AI architectures
- Collaborated on enterprise AI solutions, improving workflow automation efficiency by 40%

## KEY PROJECTS

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### Document Insight System — Adobe India Hackathon 2025 (Semi Finalist, Top 102)

*Python, FastAPI, Docker, NLP, Semantic Search, React.js*

- Built PDF parsing engine with structured outline extraction and persona-driven intelligence for tailored insights
- Developed web-based semantic search system enabling contextual snippet retrieval across multiple documents
- Implemented AI-generated audio podcast feature for enhanced user engagement and content understanding

## Medical Adherence Web App — Invictus Hackathon 2025 Winner

*React.js, Firebase, Express.js, Node.js, MongoDB*

- Led 6-developer team creating medication tracking system with automated notifications and real-time sync
- Architected scalable backend handling 10,000+ records with Firebase authentication and hosting deployment

## Distributed Bank Management System

*Java, MySQL, MVC, Socket Programming*

- Simulated secure banking operations using multithreaded socket programming and MVC architecture
- Implemented concurrent client support with REST APIs and encryption for enhanced data security

## OPEN SOURCE CONTRIBUTIONS

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### GirlScript Summer of Code (GSSoC) Contributor

- Active contributor to multiple open-source repositories focusing on web development and AI/ML projects
- Implemented features, resolved bugs, and enhanced documentation across diverse tech stacks
- Gained expertise in collaborative development, Git workflows, and code review processes

## LEADERSHIP & EXTRACURRICULARS

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### Senior Technical Officer — Quest IT Dept Council - VESIT

**Aug 2025 - Ongoing**

- Led strategic technical roadmap development encompassing DSA, ML, Next.js, and emerging technologies
- Successfully managed cross-functional projects in **AI/ML, Web Development, and AutoGen AI**
- Mentored junior developers and coordinated technical initiatives aligned with organizational objectives

### Junior Public Relations Officer — ISTE VESIT Chapter

**2024 - 2025**

- Managed technical event communications and coordinated student engagement initiatives
- Facilitated knowledge sharing sessions and technical workshops for 200+ students

## ACHIEVEMENTS & RECOGNITION

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- **Adobe India Hackathon 2025** - Grand Finalist (Top 102 teams nationwide)
- **Invictus Hackathon 2025** - Winner for Best Technical Implementation
- **Best Speaker Award** - Youth Conclave (Lok Sabha) for technical policy debate
- **300+ DSA Problems Solved** - LeetCode and GeeksforGeeks platforms with consistent practice