Tribhuvnesh Sharma

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PROFESSIONAL SUMMARY

Undergraduate at IIT Patna proficient in C/C++, Python, Data Structures, and Algorithms. Experienced in building AI agents, automated data pipelines, and full-stack web applications, with a strong focus on competitive programming and scalable software engineering.

EDUCATION

Indian Institute of Technology (IIT), Patna 2025–2029
Bachelor of Technology, Civil Engineering CPI: 8.54/10

LBS Senior Secondary School, Bhadra
Class XII (PCM) Percentage: 95.60%
Class X Percentage: 93.17%

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript
Web & Backend: HTML, CSS, FastAPI, Next.js, REST APIs
Libraries & Tools: Git, GitHub, Ollama, Model Context Protocol (MCP), PostgreSQL, Scrapy, Playwright, Raylib, AutoCAD
Core Competencies: Data Structures & Algorithms, Object-Oriented Programming (OOP), Competitive Programming (Codeforces, LeetCode)

PROJECTS

Structural Engineering Local AI Agent *GitHub | Python, Ollama, MCP*

- Built a local AI agent using Python and Qwen 2.5 via Ollama to autonomously compute beam deflection and safety limits.
- Connected the model to a custom Model Context Protocol (MCP) server to sequence deterministic calculations and eliminate LLM hallucinations.

Aero-Metrics (Real-Time Airfare Price Index) *Smart India Hackathon 2026 | Python, FastAPI, Next.js, PostgreSQL*

- Engineered an automated, high-frequency web scraping pipeline using Playwright and Scrapy across 16 airline and OTA routes.
- Implemented a dynamic price index engine calibrated with DGCA traffic weights and served real-time analytics via FastAPI and Next.js.

Snake Game Architecture *C, Raylib*

- Developed a 2D Snake game utilizing the Raylib library in C with real-time frame rendering and custom game loop logic.
- Implemented collision detection algorithms, state management, and dynamic memory handling.

LEADERSHIP & EXPERIENCE

Sponsorship Manager, Google Developer Group (GDG), IIT Patna *Jul 2026 – Present*

- Drive corporate sponsorships and industry partnerships for campus-wide developer workshops, speaker sessions, and hackathons.

Outreach Manager, Students Technical Council (STC), IIT Patna *Jul 2026 – Present*

- Lead external communications and outreach initiatives to expand student participation across technical clubs and inter-college events.

HONORS & AWARDS

- **The Integral Cup 2026:** Achieved All India Rank (AIR) 62 in Round 1 of the national mathematics competition.
- **DST-INSPIRE Scholarship Eligibility:** Ranked in the Top 1% of the Class XII Board Examinations.
- **JEE Advanced:** Secured a Top 1% rank out of all participating candidates nationwide.
- **Naukri Campus Young Turks 2025:** Scored 96.33 percentile in the national technical and aptitude evaluation.

CERTIFICATIONS & WORKSHOPS

- **Job Simulations:** Completed AWS Solution Architecture and Deloitte Tech Job Simulations via Forage (Oct 2025).
- **Technical Workshops:** Participated in ACM SIGMM Multimodal Reasoning Workshop (IIT Patna), Droidrun DevSprint 2026, and Techquest.