

# Harsh Narayan Jha

Software Engineer

📍 Darbhanga, Bihar, India - 846001

📞 +91-9472611925

✉️ [harshnj.dev@gmail.com](mailto:harshnj.dev@gmail.com)

🌐 [harshnj.is-a.dev](http://harshnj.is-a.dev) 📁 [github.com/HarshNarayanJha](https://github.com/HarshNarayanJha) <> [leetcode.com/u/harshnj](https://leetcode.com/u/harshnj) 🌐 [linkedin.com/in/harshnj](https://linkedin.com/in/harshnj)

Systems-oriented Software Engineering student specializing in backend systems, Python, and performance optimization. Built production-grade applications using Python, Svelte, and React, with hands-on experience in Linux environments and AI agent workflows. Seeking software engineering roles to apply strong system design and problem-solving skills.

## SKILLS

**Languages:** *Python, TypeScript, C++, Rust, Bash.*

**Web & Mobile:** *Svelte, React, Next.js, Vue, Django, Flask, Node, Kotlin, Jetpack Compose, Flutter.*

**AIML & Automation:** *LangGraph, LangChain, PyTorch.*

**Tools & Infra:** *Git, AWS, Google Cloud, Linux, Docker, Unity Engine, Godot, Blender.*

## PROJECTS

**KabuAI** ([kabuai.onrender.com](http://kabuai.onrender.com) | [HarshNarayanJha/KabuAI](https://github.com/HarshNarayanJha/KabuAI))

Crafted a Python-based AI agent using LangGraph with SSE streaming, improving query relevance by 35% through prompt chaining, sentiment-aware routing, and optimized response pipelines.

**Freyza Employee Systems** ([github.com/FreyzaEmployee](https://github.com/FreyzaEmployee))

Engineered a production-grade backend and mobile app from scratch, improving operational workflows and reducing manual workload by over 40%.

**PYQNow** ([pyqnow.netlify.app](http://pyqnow.netlify.app))

Developed a Vue.js/Express portal for 150+ students, featuring a mobile-responsive UI and an automated scraper for exam papers.

**Insta Solve** ([HarshNarayanJha/Insta-Solve](https://github.com/HarshNarayanJha/Insta-Solve))

Built a mobile app that solves student doubts using the Gemini API; submitted to the Google Gemini API Developer Competition.

**Echo - Notepad** ([echo-notepad.netlify.app](http://echo-notepad.netlify.app) | [HarshNarayanJha/echo-server](https://github.com/HarshNarayanJha/echo-server))

Developed a private and real-time collaborative system using WebSockets, implementing efficient message handling and connection management to achieve sub-100ms latency.

## EXPERIENCE

**CoRider**, Startup — *Software Developer Engineer* — March 2025 - July 2025

- **Developed** and deployed *core* car-sharing features (DMs, Ask to Verify, and Recurring Trips) for a platform with *500+ downloads*, directly improving user safety and retention.
- **Optimized** ride-hosting workflows, reducing listing time by 30% and increasing search-to-match efficiency by 20% through a redesigned *Connections* and date-filtering system.
- **Architected** scalable backend services using Python (Flask), MongoDB, and MySQL on AWS, reducing API latency by 40% and infrastructure costs by 15%.

## OPEN SOURCE

- Refined the Linux desktop experience by submitting patches to *Hyprland*, improving compositor and user experience.
- Implemented XML parsing routine in *Zeno*, removing external dependency to handle large-scale crawling operations.
- Added QoL features to the *Zed Editor* and *Microsoft Terminal*.
- Collaborated with *Unity Technologies* and a community of nearly 100 people to make an open-world RPG game.

## EDUCATION

**Birla Institute of Technology**, Jharkhand — *B.Tech* — 2023 - 2027

CGPA: 8.90 — Coursework: Linear algebra, Operating Systems, Computer Architecture, DSA, Database.

**Kendriya Vidyalaya No. 1**, AFS, Darbhanga, Bihar — *10+2* — 2021 - 2023

94.4% in 10th — 90% in 12th — Coursework: Physics, Mathematics, English, Basic Computing, Python, SQL.

## ACHIEVEMENTS

**Advent of Code:** Ranked 322 (top ~0.01%) in Advent of Code, consistently solving advanced algorithmic challenges since 2022.

**Harvard CS50X:** CS50's Introduction to Computer Science. Awarded by Harvard University (via edX) on completion of CS50.

**University of Helsinki - Fullstackopen:** Completion of 5 ECTS online course with grade 2.

**Honorable mention in SWIFF:** The Honorable mention Letter for the animation short, "The Cycle", by the SWIFF.