

Harsh Narayan Jha

Software Engineer

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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, C#*

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

AI/ML: *LangGraph, LangChain, PyTorch.*

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

PROJECTS

Kepler Zero (kepler-zero.onrender.com | [HarshNarayanJha/kepler-zero](https://github.com/HarshNarayanJha/kepler-zero))

Trained a classifier on imbalanced exoplanet data where accuracy fails, optimizing for precision and mitigating skew via transformations; deployed a containerized inference server.

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

Built a LangGraph-based AI agent in Python with SSE streaming, improving query relevance 35% via sentiment-aware routing.

Freyza Employee Systems (github.com/FreyzaEmployee)

Engineered backend and mobile platform from scratch, streamlining workflows and reducing manual workload by over 40%.

PYQNow (pyqnow.netlify.app)

Created a Vue.js/Express portal for 150+ students with responsive UI and automated exam paper scraping.

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

Built a mobile app for real-time doubt solving using Gemini API; submitted to Google Gemini Developer Competition.

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

Architected a real-time collaborative system using WebSockets, achieving sub-100ms latency via efficient message handling.

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.