Ravi Sharma

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LinkedIn • Github • Personal Portfolio

PROFESSIONAL SUMMARY

Computer Science student at **Newton School of Technology** who turns ideas into **working products**, from a **sign-language translator** to a **graph query engine built from scratch**. **All India Rank 17** in **Turing Cup 2k26**, **ICPC Asia Amritapuri 2025** regional participant and **lead at DevForge**, the college developer club.

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025-2029	Bachelor of Engineering (Computer Science)	Newton School of Technology	8.17/10.0
2024-2025	Intermediate (Class XII)	Shri Guru Harkrishan Senior Secondary School, Chandigarh	72.0%
2022-2023	Matriculation (Class X)	Army Public School, Chandimandir Cantt	81.86%

EXPERIENCE

Governance & Lead Management July 2026 - October 2026
DevForge - Developer Club, Newton School of Technology

- Coordinated **club leads** and organised **technical events**.

PROJECTS

LessonLingo - Offline Lecture Translator (Team) (Github) (Demo) October 2026

- Co-built a tool that turns English lectures into **Hindi and Kannada subtitles and dubbed audio**, with offline processing after the initial model download.
- Built a **step-by-step web interface** for the translation workflow and added automated tests.
- Translated **Markdown notes** while preserving headings, tables and code blocks. **Tech:** Python, pytest.

Setu - Sign Language Bridge (Team, SIH 2026) (Github) (Demo) September 2026

- My part: fixed camera recognition of **face-adjacent signs** by capturing **full body, hand and 48-point face trajectories**, so look-alike signs stop being confused.
- Bundled the **MediaPipe Holistic** model for **offline use** with **GPU-to-CPU fallback**, tuned segmentation for multi-part signs and added an **automated test suite**.
- Rebuilt sign playback as a **2D signer** with articulated hands and built a **resumable dataset pipeline** (**4,384 clips** indexed). **Tech:** TypeScript, React, Python, MediaPipe.

Pathglass - Graph Query Engine & Visualizer (Github) (Demo) July 2026

- Built a **graph query engine from scratch** with **lazy iterators** for traversal, filter, take and unique query steps.
- Added a **visual app** with **graph canvas**, **query builder**, **query-plan panel** and **step-by-step result replay**. **Tech:** TypeScript, Node.js.

Interactive Game-Style Portfolio (Github) (Demo) January 2026

- Personal portfolio built as a **2D game**: visitors walk around a **virtual room** and interact with objects to discover my projects and skills.
- **Custom animations**, **keyboard controls** and **optimised assets** for fast loads; about **35 hours** of work from scratch.
- **Tech:** JavaScript, Phaser.js, HTML5 Canvas, CSS.

CERTIFICATIONS

ICPC Asia Amritapuri Regional Contest 2025 - Participation ICPC December 2025

SKILLS

- **Languages:** C++, Python, JavaScript, TypeScript, HTML, CSS
- **Frameworks & Tools:** React, Next.js, Tailwind CSS, Playwright, FastAPI, Git and Github, Linux, Bash Scripting
- **AI Workflow Automation & Databases:** n8n Introduction, DBMS, MySQL
- **Frameworks & Libraries:** Node.js, Express JS

ACHIEVEMENTS

- Attended **openSUSE.Asia Summit 2026** (Universitas Gadjah Mada, Yogyakarta, Indonesia, Oct 2026), an **international open-source conference** of the openSUSE and Linux community.
- Secured **All India Rank 17** in **Turing Cup 2k26**, a competitive programming contest by Turing Hut (Mar 2026).

EXTRA-CURRICULAR ACTIVITIES

- **Community Member, openSUSE Project** (Oct 2026 – Present)
- Organised **Campfire Bengaluru (Hack Club)**, handling **event coordination** and **community engagement**.
- Participated in **Hack Club Build Guild**, **Daydream Bengaluru** and **CodeDay Bengaluru** hackathons.