Aashish Panthi

Kapilvastu-10, NP | aashishpanthi11@gmail.com | +977 986 7526912
aashishpanthi.name.np | LinkedIn | GitHub

Education

Kalika Manavgyan Secondary School, High School Computer Engineering   May 2019 – Aug 2023
- **Coursework:** Computer Architecture, Java, Fundamentals of Digital Systems, Microprocessor, Operating System, Web and Mobile App Development, C Programming, Social Studies, Physics, Mathematics
- **Honors and Awards:** Valedictorian, 1st in 11th grade, Received full tuition scholarship (x3)

Academic Honors & Awards

INTERNATIONAL
- **Winner** Build with Linode Hackathon (1/60 projects); won $1,000 & got featured on their site and Twitter (X)
- **Winner**, Hack-r-play Hackathon 2022 (1/100+); built a web app that lets users track when emails are opened
- **Platinum Winner**, DevElevate 2022 by Showwcase.com: wrote blogs on topics like the rise of AI, agile development, and open-source.

NATIONAL
- **Top national GPA** from Technical & Vocational Stream (NEB); awarded $150 and certificate by Rambahadur Minakumari Trust
- Named **Glocal Teen Hero Nepal 20 under 20**; this award recognizes 20 change-makers under the age of 20
- **Finalist (Top 6/709)**, Glocal Teen Hero Nepal 2024; recognized for my advancing education in and through technology. Engaged in discussions with leaders & diplomats on opportunities to scale educational technology.
- **Finalist**, National Astronomy Olympiad 2023 after 1 provincial round and 2 national rounds. Selected to represent Nepal at the International Astronomy Olympiad 2023 in Beijing, China
- **2nd in country**, 4th National Space Speech Competition; presented a 5-minute speech on the topic "Space & Sustainability" and awarded NPR 5k among 40+ participants

Leadership & Community Engagement

President, Coding for Social Good Nepal   Nov 2022 – Present
- Worked with 30+ schools to promote Computer Science Education, guided students with structured handbooks to use school and online resources, and initiated CS Clubs in Secondary/High Schools in Nepal.
- Interviewed and trained 70+ volunteers for our different programs and managed donations.
- Organized Book Donation Campaign, Career Counseling programs, Coding workshops, and other programs, and reached 10,000+ students to help them prepare for a career in Computer Science.
- Led the "Code for Charity" initiative, & provided pro-bono software solutions to 5+ NGOs (Testimonials: one, two, three). Partnered w/ companies to provide internship/job opportunities to outstanding student volunteers.
- Won the Citizen Entrepreneurship Competition 2023 and **$10,000** innovation grant (E-STEM Award 2025).
- Became a semi-finalist for the Social Innovation ICT Award 2025. Presented the project on national television and with 15,000+ physical visitors.

Founder, Academic Resource Hub   Sep 2021 – Present
- When the national curriculum unexpectedly (drastically) changed after the COVID-19 pandemic, there weren't many resources to study. I collected question papers and relevant free e-books and organized them on a website.
- Further, I added my notes. As the website gained popularity, contributors helped to reach over 1,000 practice questions, hundreds of e-books, and notes. We also made strict regulations for improved quality.
- It has attracted **150,000+ learners**, and I continue to maintain it with the help of volunteers and teachers.

Fellow, Youth Internet Governance Forum (yIGF) Nepal Fellowship   Oct 2025 – Present
- Selected (6/113 applicants) on a fully funded trip to attend the yIGF Nepal 2025 fellowship and Encryption Day in person at Kathmandu (photos). Wrote a blog post and shared it on their site. (more)

- Later, received an opportunity to attend the Asia Pacific School on Internet Governance (APSIG) and Asia Pacific Regional Internet Governance Forum (APrIGF) 2025.

Organizer, Sagarmatha Hacktoberfest 2023   Oct 2023 – Oct 2023

- Organized a 4-day-long national event called "Sagarmatha Hacktoberfest" to encourage Nepalese students to participate in Hacktoberfest and contribute to open source projects.
- Attended by 200+ students, the event was a huge success with 12 speakers sharing their experiences in open source and how to get started with open source.

Engineering & Technology Experiences

INNOVATIONS

Tech Lead & Peer Mentor, Pyari Education x Incubate Nepal   Jun 2025 – Aug 2025

- Taught 6 high school students design in Figma and web app development with AI Coding Agents to develop a gamified (Duolingo-like) Sexual and Reproductive Health (SRH) learning platform. (App)
- Selected (1/40+ applications) in a competitive summer program called Incubate Nepal and worked alongside students from Yale and Wesleyan University.
- Built interactive games – Trivia, Wordle, & paint-by-number – that increased attention span by 80%+. Play here.
- Presented at the Yale Tsai City on Sep 4, 2025 (videos and photos).

Frontend Developer / Research Scholar, Incubate Nepal – USA (remote)   June, 2023 – Aug 2023

- Selected as **1 of 36 students from 300+ applicants** to develop *Surakshya*, a React Native app providing safety resources for women, under the mentorship of a Microsoft software engineer.
- Reduced emergency response time by 20% with Twilio messaging to send SOS alerts to emergency contacts.
- Developed a bilingual localization system (i18n) to make the app accessible to both English & Nepali speakers.
- Implemented MapBox API for real-time GPS tracking, showing nearest hospitals and police stations, while managing camera, microphone, contacts, and live location.
- Presented the app alongside Jeffrey S. Ravel, former head of MIT's history department; Dr. Amina Singh, professor at Kathmandu University; and 200+ audience. Achieved 150+ early sign-ups with positive reception.

Developer, Blockchain-based Academic Record Keeping System   Apr 2025 – Aug 2025

- Selected in a competitive eSatya Blockchain Fellowship 2025, where I learned about Blockchain Architecture, Cryptography, Ethereum, Dapps, etc. (certificate)
- Built a decentralized blockchain-based academic record-keeping system that solves the problem of unavailability and fraudulent activities by using blockchain for 24/7 availability and tamper-proof. (watch demo)

RESEARCH

Research Intern, Lumbini Buddhist University   Jan 2024 – Mar 2024

- Researched Education Management Information Systems (EMIS) adoption in 11 Nepalese universities.
- Showed interest in EMIS during internship and convinced the Lumbini Buddhist University - focused on Buddhist studies, philosophy, and related fields - for this research.
- Findings presented at International Conference on Intelligent Technology and Advanced Manufacturing (ITAM), University of Cagliari, Italy.

Co-Author, Independent Peer Research   Jun 2023 – Aug 2023

- Scraped 23k+ product reviews to analyze sentiment and perception of products across different categories on Daraz, Nepal's largest E-commerce platform. Built a website with all of the compiled data & graphs (here).
- Published the research in an international journal IJSRED-V6I5P137.

PROFESSIONAL EXPERIENCE

Software Engineer, Growth Agency – Sainte-Croix, Switzerland (remote)   Feb 2024 – Feb 2025

- Worked on front-end development and developed 2D SVG animations and dashboard components in Nextjs using typescript and GSAP
- Developed modular components using Atomic Design approach (with storybook).

- Followed Agile methodology to work on projects: divided projects into modules and continuously improved in each cycle. Guided by Sprint Master and daily standups.
- Written test cases with React JS Jest to test these components and their functionalities.

Software Engineer Intern, Momayo Technology Pvt. Ltd. – Kathmandu, NP   May 2023 – Nov 2023
- Worked with the frontend development team to build the frontend of the student management system, which comes under UMIS of Lumbini Buddhist University. Translated University's website content into Nepali language.
- Built and maintained the website of Momayo Technology, that increased the company's reach by 80%.

Teaching & Mentoring

Tech Blogger, Self-growth & Web Development Blogs   Aug 2020 – Present
- Authored 90+ articles (200k+ views); Top 50 JavaScript Writer on Hashnode and Dev.to
- Won 6 international awards; offered several freelancing projects and paid jobs.

YouTube Creator, "Koded" (youtube.com/@koded)   Nov 2020 – Present
- 1.77k+ subscribers, 375k+ total views, 40+ videos.
- Create tutorials & un-edited coding videos, emphasizing transparency in learning & real-world app development.

Co-founder & IT Head, ICT Club of KMGSS   May 2022 – Jun 2023
- Tutored coding and robotics to 120+ students through 8 workshops.
- Managed club's website/social media; Organized school's science fair with 1.5k attendees.

Selected Technical Projects

SOFTWARE PROJECTS

Search Engine, Reactjs, Redis, Express, Puppeteer   GitHub
- Scraped over 50k web pages using Puppeteer and stored into the Redis database, enabled Redis caching
- Developed my own crawling and ranking algorithms for effective crawling & indexing the search results
- Became runner-up at Dev.to x Redis hackathon (1/150+ projects); won $800

E-commerce products' price tracker, React, Chartjs, Puppeteer, Nodemailer   GitHub
- Built a web app that tracked the price of products on popular e-commerce sites. (Video demo)
- Built an email notification system to send email reminders once the product's price fell below the desired price.
- Visualized price history data in a time vs price graph.
- Won Build with Linode Hackathon(1/60 projects) and got featured on Akamai's site

HARDWARE PROJECTS

Double Voting Prevention System, Arduino uno, Fingerprint scanner, LCD display   More
- This project was built as a solution to the problem of double voting seen in the elections of Nepal on 2022 AD.
- The system uses fingerprint scanner to identify the voters. It stores the voters information and prevent them from voting twice. The fingerprint data from the National ID card can be used to identify the eligibility of voters.

Fellowships

Fellow, Awareness 360 Fellowship 2025   Apr 2025 – Nov 2025
Winner, Leapfrog 60-day public learning challenge   Jun 2024 – Jul 2024
Student, Introduction to Quantum Computing by The Coding School   Sep 2024 – May 2025

Skills

Languages: English, Nepali, & Hindi
Programming Languages: JavaScript, HTML, CSS, TypeScript, C/C++/C#, Java, Python
Frameworks and Technology: Next.js, React.js, Tailwind CSS, Storybook, Express.js, Git, Postman
Interests : Educational Technology, Human-Computer Interaction (HCI), and Learning Analytics.