

Rohit Kumar Sah

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EDUCATION

Southern Illinois University, Edwardsville

Master of Science in Computer Science (Partial Tuition Fee Waived)

(expected 2026)

Università degli Studi di Milano Statale, Milan, Italy

Foreign Student Exchange Program (Tuition Fee Waived)

Marks: **27/30**

Feb. 2023 — Jul. 2023

Amrita School of Engineering, Chennai, India

Bachelor of Technology Computer Science and Engineering (Full-Ride Scholarship)

CGPA: **8.66/10**

Aug. 2019 — Jul. 2023

EXPERIENCE

Technimus

Software Engineer

Apr. 2024 – Present

Kathmandu, Nepal

- Troubleshoot and debugged complex issues within **multi-tenant** React and Node applications, achieving high performance and accessible web application following both **REST** and **W3C standards**.
- **Worked closely with Database Administrators** to efficiently store and query data from multi-schema PostgreSQL database ensuring high level of scalability, availability and performance.
- Conducted regular meetings with team members to **track progress**, **address challenges**, and **ensure project alignment** with organizational goals.

Tech Central Pvt. Ltd.

Frontend Engineer

Oct. 2023 – Apr. 2024

Kathmandu, Nepal

- Ensured top-notch **web performance** and **web accessibility** by incorporating Lighthouse metrics into development practices, consistently achieving high scores for projects.
- Leveraged **CSS preprocessors (SASS)** with **BEM patterns** to efficiently style the web application using mobile first style, resulting in a consistent and visually appealing user interface.
- Streamlined workflow using Gulp, enhancing **task automation**, and boosting overall project efficiency.

PROJECTS

HEx 2023 Website (Event, Hackathon & CTF) | React, Astro, Docker, AWS

Jul. 2023

- Volunteered in **designing** and **developing** websites for HEx Himalaya, including hackathon, events list, and CTF sites (also member of the CTF organization team) organized by Himalaya College of Engineering.
- Optimized website to score **100% in Lighthouse in all factors** and implemented strategic keywords for top-notch search engine rankings handling over **7000 requests in 36 hrs.** timespan.

Multi-tenant Ecommerce Platform | React, GraphQL, Typescript

Jan. 2023 – Jun. 2023

- Highly scalable **secured** GraphQL API backend with **fault tolerance** and **load balancing** with **TypeORM with Postgres and Redis** to manage user sessions, caching, rate limiting and safe queries to the database.
- Developed a storefront using Nextjs and ChakraUI to build **user-friendly** and **human centric** design.

TECHNICAL SKILLS

Web Development: React.js, TypeScript, GraphQL, Node.js, Express.js, Next.js, Zustand, TRPC, Tailwind CSS

Database & Streams: PostgreSQL, Firebase, Redis, Sci-kit Learn, Weka, PyTorch, Tableau

Data Science: Sci-kit Learn, Weka, PyTorch, Tableau

Productivity Boost: Git, VS Code, Vim (Basics), Bash, AWS, Docker, Adobe Suite, Microsoft Office Suite

OTHER DETAILS

Scholarships: Compex Scholarship Program (Indian Embassy, Nepal) — Mahatma Gandhi Scholarship.

Research Paper: Sah R., Amrutha G., Manasa, Chapagain B., & Padmavathi A. Performance Evaluation of Movie-Based Recommendation Systems using Hybrid Machine Learning Models. International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2023.

Relevant Courses: Linear Algebra, Probability & Stats, Big Data Analytics, Machine Learning, etc.

Additional Activity: Mentor for Cognizance (College Club) for 2 years — Live-in-Labs (Research for development & sustainable solutions) — Mentor and Core Organization Team for Hex Himalaya Website, Hackathon, CTF, etc. — Volunteered as Traffic Police — Experienced bungee jump from the world's 2nd highest platform.

Languages: English (fluent) — Nepali (fluent) — Hindi (conversational) — Japanese (beginner)