Rohit Kumar Sah

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EDUCATION

Southern Illinois University, Edwardsville, IL
Master of Science in Computer Science (Partial Tuition Fee Waived) — (expected 2026)

Università degli Studi di Milano Statale, Milan, Italy — Marks: **27/30**
Foreign Student Exchange Program (Tuiton Fee Waived) — Feb. 2023 — Jul. 2023

Amrita School of Engineering, Chennai, India — CGPA: **8.66/10**
Bachelor of Technology Computer Science and Engineering (Full-Ride Scholarship) — Aug. 2019 — Jul. 2023

EXPERIENCE

Technimus — Apr. 2024 – Present
Software Engineer — *Kathmandu, Nepal*
- Troubleshot 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. — Oct. 2023 – Apr. 2024
Frontend Engineer — *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

OSOM: Overseas Student Operation Management | *React, Typescript, REST* — Jul. 2024
- Developed comprehensive **CRM** for education consultancies, featuring student management, task tracking, and visa scheduling, serving **25+ consultancies** in Nepal, processing **500,000+ monthly network requests.**
- Developed a student portal with document management, visa tracking, and course enrollment while enhancing UI/UX with a **feedback-driven**, intuitive dashboard for **real-time progress tracking**.

HEx 2023 Website (Event, Hackathon & CTF) | *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.

TECHNICAL SKILLS

Web Developement: 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 — Bungee jumped from the world's 2nd highest platform.

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