

# ROHIT KUMAR SAH

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## EDUCATION

<b>Southern Illinois University, Edwardsville, IL</b> <i>Master of Science in Computer Science</i>	(expected 2026)
<b>Università degli Studi di Milano Statale, Milan, Italy</b> <i>Foreign Student Exchange Program (Tuition Fee Waived)</i>	Marks: <b>27/30</b> Feb. 2023 — Jul. 2023
<b>Amrita School of Engineering, Chennai, India</b> <i>Bachelor of Technology Computer Science and Engineering (Full-Ride Scholarship)</i>	CGPA: <b>8.66/10</b> Aug. 2019 — Jul. 2023

## EXPERIENCE

<b>Technimus</b> <i>Software Engineer</i>	Apr. 2024 – Dec. 2024 Kathmandu, Nepal
<ul style="list-style-type: none"><li>Developed and maintained <b>multi-tenant React and Node</b> applications, <b>scaling the platform</b> to serve over 1M monthly requests while ensuring accessibility and compliance with REST and W3C standards.</li><li><b>Optimized database schema and queries</b> in <b>multi-schema PostgreSQL databases</b>, enhancing scalability and reducing query times by 20%, ensuring high availability and data isolation.</li><li><b>Attended regular meetings</b> with team members and clients to track progress, resolve issues, and ensure feature delivery in alignment with client goals, contributing to a 10% improvement in delivery timelines.</li></ul>	
<b>Tech Central Pvt. Ltd.</b> <i>Frontend Engineer</i>	Oct. 2023 – Apr. 2024 Kathmandu, Nepal
<ul style="list-style-type: none"><li>Ensured <b>web performance</b> and <b>accessibility</b> by incorporating Lighthouse metrics into development practices, consistently achieving high scores across all projects.</li><li>Utilized <b>CSS preprocessors (SASS)</b> with <b>BEM patterns</b> to efficiently style the web application using mobile first style, resulting in a consistent and visually appealing user interface.</li><li>Streamlined front-end workflows using Gulp to <b>automate repetitive tasks</b> such as minification and compilation; saved an average of 5 hours weekly on manual processes, allowing focus on feature development.</li></ul>	

## PROJECTS

<b>OSOM: Overseas Student Operation Management</b>   <i>React, Typescript, Express</i>	Jul. 2024
<ul style="list-style-type: none"><li>Developed comprehensive <b>CRM</b> for education consultancies, featuring student management, task tracking, and visa scheduling, serving <b>50+ consultancies</b> in Nepal, processing <b>900,000+ monthly network requests</b>.</li><li>Integrated student portal featuring document management, visa tracking, and course enrollment systems, while implementing an intuitive, <b>feedback-driven</b> dashboard for <b>real-time progress monitoring</b>.</li></ul>	
<b>HEX 2023 Website (Event, Hackathon &amp; CTF)</b>   <i>Astro, Docker, AWS</i>	Jul. 2023
<ul style="list-style-type: none"><li>Volunteered in <b>designing</b> and <b>developing</b> websites for HEX Himalaya, including hackathon, events list, and CTF sites (also member of the CTF organization team) organized by Himalaya College of Engineering.</li><li>Optimized website to score <b>100% in Lighthouse in all factors</b> and implemented strategic keywords for top-notch search engine rankings handling over <b>25,000 requests in 36 hrs.</b> timespan.</li></ul>	

## TECHNICAL SKILLS

<b>Web Development:</b> React.js, TypeScript, GraphQL, Node.js, Express.js, Next.js, Zustand, TRPC, Tailwind CSS
<b>Database &amp; Streams:</b> PostgreSQL, Firebase, Redis, MySQL, Drizzle, Kysely
<b>Data Science:</b> Sci-kit Learn, Weka, NumPy, Pandas, PyTorch, Observable, D3.js
<b>Productivity Boost:</b> Git, VS Code, Vim (Basics), Bash, AWS, Docker, Microsoft Office Suite

## OTHER DETAILS

<b>Scholarships:</b> Complex Scholarship Program (Indian Embassy, Nepal) — Mahatma Gandhi Scholarship.
<b>Research Paper:</b> 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.
<b>Relevant Courses:</b> Linear Algebra, Probability & Stats, Big Data Analytics, Machine Learning, etc.
<b>Additional Activity:</b> 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 in Traffic Policing — Bungee jumped from the world's 2nd highest platform.
<b>Languages:</b> English (fluent) — Nepali (fluent) — Hindi (conversational) — Japanese (beginner)