ROHIT KUMAR SAH

sahrohit.com.np | +1 618-217-9577 | sahrohit9586@gmail.com | linkedin.com/in/sahrohit | github.com/sahrohit

EDUCATION

Southern Illinois University, Edwardsville, IL
Master of Science in Computer Science (GEO Award) — (expected May 2026)

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

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

EXPERIENCE

Technimus — Apr. 2024 – Dec. 2024
Software Engineer — *Kathmandu, Nepal*

- Developed and maintained **multi-tenant React and Node** applications, **scaling the platform** to serve over 1M monthly requests while ensuring accessibility and compliance with REST and W3C standards.
- **Optimized database schema and queries** in **multi-schema PostgreSQL databases**, enhancing scalability and reducing query times by 20%, ensuring high availability and data isolation.
- **Attended regular meetings** 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.

Tech Central Pvt. Ltd. — Oct. 2023 – Apr. 2024
Frontend Engineer — *Kathmandu, Nepal*

- Ensured **web performance** and **accessibility** by incorporating Lighthouse metrics into development practices, consistently achieving high scores across all projects.
- Utilized **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 front-end workflows using Gulp to **automate repetitive tasks** such as minification and compilation; saved an average of 5 hours weekly on manual processes, allowing focus on feature development.

PROJECTS

OSOM: Overseas Student Operation Management | *React, Typescript, Express* — Jul. 2024

- Developed comprehensive **CRM** for education consultancies, featuring student management, task tracking, and visa scheduling, serving **50+ consultancies** in Nepal, processing **900,000+ monthly network requests.**
- Integrated student portal featuring document management, visa tracking, and course enrollment systems, while implementing an intuitive, **feedback-driven** dashboard for **real-time progress monitoring**.

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 **25,000 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, MySQL, Drizzle, Kysely
Data Science: Sci-kit Learn, Weka, NumPy, Pandas, PyTorch, Observable, D3.js
Productivity Boost: Git, VS Code, Vim (Basics), Bash, AWS, Docker, 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 in Traffic Policing — Bungee jumped from the world's 2nd highest platform.
Languages: English (fluent) — Nepali (fluent) — Hindi (conversational) — Japanese (beginner)