ROHIT KUMAR SAH

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EDUCATION

Southern Illinois University, Edwardsville, IL
Master of Science in Computer Science *(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 **100+ 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
Relevant Courses: Artificial Intelligence, Big Data Analytics, Linear Algebra, Probability & Stats, Machine Learning, etc.

RESEARCH PUBLICATION

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.