Rohit Kumar Sah

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EDUCATION

Southern Illinois University, Edwardsville
Master of Science in Computer Science (Partial Tuition Fee Waived)   *Aug. 2024 — Dec. 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

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 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, CI/CD Pipeline, AWS, Docker

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.
Tests: IELTS — 7.0 (Listening - 8.0, Reading - 7.0, Writing - 6.0, Speaking - 6.5) , GRE — 316 (Verbal - 154, Quantitative - 162, Analytical Writing - 3.5)
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
Languages: English (fluent) — Nepali (fluent) — Hindi (conversational) — Japanese (beginner)