ROHAN SINGH ASWAL

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EDUCATION

SRM Institute of Science and Technology   CGPA: 9.185
Bachelor of Technology in Computer Science and Engineering   *June 2023 – May 2027*
Tashi Namgyal Academy   Percentage: 89.75%
Completed Higher Secondary Education in Science (Physics, Chemistry, Mathematics)   *Mar. 2021 – Apr. 2023*

EXPERIENCE

AI Trainer   Feb. 2025 – May 2025
Outlier AI   *Remote*
- Improved reliability of AI-generated frontend code through structured prompts and debugging workflows.
- Enhanced model output accuracy by correcting logic issues and refining prompt-engineering techniques.

Web Developer   Oct. 2024 – Jan. 2025
Garhwal Goats   *Remote*
- Built responsive user-focused web interfaces using React and Next.js.
- Implemented API integrations and authentication flows to improve platform usability.

Tech Member   Sep. 2024 – Aug. 2025
IIE SRM – Research & Mentorship Program   *Chennai, Tamil Nadu*
- Developed full-stack applications using modern web frameworks for event and program management.
- Collaborated with cross-functional teams to design and implement digital solutions for student initiatives.

PROJECTS

PRAKSAT Model | *ElysiaJS, Redis, Terraform, Azure, Prometheus*
- Developed a scalable environmental monitoring platform using Next.js and PostgreSQL with real-time data visualization.
- Implemented Redis caching and Better Auth to optimize API performance, authentication, and session management.
- Provisioned and deployed cloud infrastructure using Terraform on Microsoft Azure with Prometheus monitoring.

Nyay Samiti – Legal Document Analyzer | *Next.js, Weaviate, PostgreSQL*
- Engineered NLP pipelines using Legal-BERT, spaCy, and GPT-4 for automated summarization and clause extraction.
- Designed a full-stack system using Next.js, Weaviate vector search, and PostgreSQL for scalable retrieval.

Savchham AI Cleanup Platform | *Next.js, RBAC APIs, Docker, Azure*
- Implemented RBAC-enabled REST APIs with a dashboard for secure task assignment and workflow management.
- Developed an AI microservice for waste detection and automated allocation, reducing manual verification time by 60%.

CERTIFICATIONS

SIH 2025 Finalist (ISRO Problem Statement)
- National finalist for SIH 2025 under ISRO; developed an end-to-end environmental monitoring and forecasting solution.

HackerRank React Certification
- Demonstrated proficiency in React, component design, hooks, and UI architecture.

NPTEL Blockchain Certification
- Completed coursework covering blockchain fundamentals, cryptography, consensus, and smart contracts.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: React, Next.js, Node.js, Elysia.js, Express, Typescript,Flask, FastAPI
Tools: Git, Docker, Terraform, Azure, VS Code, Prometheus, BetterAuth, Postman
Databases: PostgreSQL, MongoDB, Redis, Weaviate
Domain Skills: Full-Stack Development, Cloud Deployment (Azure), Authentication Systems, Data Structures, OOPs, DBMS.