Rahul Yadav

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GitHub | **Portfolio** | **LinkedIn** | **X**

PROFILE SUMMARY

Software Engineer skilled in DSA and AWS, with experience debugging and enhancing full-stack/mobile applications. Built scalable projects, including a collaborative platform (uni-papers.com), a URL shortener (raba), and a hospital management app (Aarogya). Passionate about cloud computing and system optimization.

Experience

Aarogya – Hospital Management App
Software Engineer | Sneha Hospital, Nepal   **[Sep 2023 – Jan 2025]**
- Built Aarogya, a hospital management app for rural healthcare, helping Sneha Hospital launch its business.
- Conducted market research to design a cost-effective solution, using Google Sheets & Drive (15GB free storage) for patient data.
- Boosted hospital growth, leading to 3,000+ patients post-launch and securing a municipal contract for 7,000+ elderly patients.
- Ensured secure data handling while reducing infrastructure costs.
- Currently developing their full-stack website for nationwide expansion in the next 1-2 years**.**

Projects

uni-papers.com – **Link**
- Built and launched a student-first academic platform using **Next.js + Supabase**, now hosting **100+ papers** across multiple universities.
- Integrated **Google Ads monetization** with **55% revenue-sharing** for contributors & **1% commission** for onboarding new universities.
- Implemented **AI-powered Q&A** on each paper page for real-time academic assistance.
- Fully **open-source**, with growing community contributions and feature rollouts in progress.

Aarogya - Hospital Management App - **LINK**
- Developed a secure **health records management app** for hospitals using React Native (Expo).
- Integrated Excel-based workflows to streamline data entry and patient report updates for hospital staff, based on customer requests.
- Leveraged Google Drive's 15GB free storage **to manage 1,00,000+ patient records efficiently**.
- Designed an intuitive **login-based system for easy and secure data retrieval.**

URL Shortener - **LINK**
- Built a scalable URL shortening service using **Next.js with AWS as the backend.**
- Implemented **AWS Lambda & API Gateway** for short URL generation, retrieval, and redirection.
- Utilized **DynamoDB** for efficient short & long-URL storage
- Deployed on **Cloudflare** Pages.dev for high availability and fast performance.
- Achieved 100+ unique user visits per day on the website.

SKILLS

- **Languages**: Python, Java, C, C++, JavaScript, TypeScript
- **Cloud Computing**: AWS (S3, EC2, Lambda, IAM, DynamoDB, API Gateway, CloudFormation, SSM, WebSockets), Docker, Kubernetes (Learning)
- **Data Structures & Algorithms**: Strong problem-solving skills with competitive programming experience (Neetcode, Codeforces, Leetcode)
- **Full-Stack Development**: TypeScript (Proficient), React.js (Proficient), Next.js (Proficient), Node.js (Proficient), HTML, CSS
- **Mobile Development**: React Native, Expo (Proficient), Shadcn

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EDUCATION

B.Tech Computer Science and Engineering   **[2022 - 2026]**
 Vellore Institute of Technology, Vellore
- CGPA - 7.96 / 10

CERTIFICATIONS

- CS50P: Introduction to Programming with Python – Harvard University *(Completed Course)*

KEY HIGHLIGHTS & INTERESTS

- Hands-on experience with Full-Stack, AWS services and scalable cloud solutions.
- Strong problem-solving skills with competitive programming achievements (Neetcode, Codeforces, Leetcode).
- Actively developing and maintaining GitHub projects, showcasing hands-on debugging and enhancement skills.
- Passionate about collaborating on open-source projects and learning from talented developers.

ADDITIONAL INFORMATION

- Languages:
  - **Native**: Maithili, Nepali   **Fluent**: English, Hindi