Shashank Kumar Singh

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Professional Summary

Enthusiastic Computer Science undergraduate with hands-on experience in backend development, DevOps, and cloud platforms (AWS). Skilled in designing and deploying scalable APIs, automating CI/CD workflows, and working with distributed systems. Adept at problem-solving and eager to contribute to innovative backend and DevSecOps solutions in a fast-paced startup environment.

Skills

- **DevOps & Cloud:** AWS (EC2, S3, RDS, Lambda), Docker, Git/GitHub, GitHub Actions (CI/CD), Linux, Shell Scripting, Ansible, Jenkins, Terraform
- **Backend & Programming:** Python (Flask, Django), Java (basic), SQL, C, REST API Development, Data Structures & Algorithms
- **Web & Tools:** React, Flask, Tailwind, VS Code, Postman

Projects

Full-Stack CI/CD Deployment on AWS

- Developed and deployed a containerized full-stack application with a Node.js (Express) frontend and a Flask backend using Docker and Docker Compose.
- Set up and hosted the application on an AWS EC2 instance with a mapped Elastic IP, ensuring persistent access.
- Implemented CI/CD using GitHub Actions, automating deployment on every push to the main branch by pulling code, building Docker containers, and restarting services remotely via SSH.
- Wrote secure infrastructure scripts and configured secrets to enable password-less access via SSH keys and environment variables.
- Ensured smooth frontend-backend communication using Docker networking and tested production setup successfully.

AI Super App

- All-in-one platform for personalized AI-generated images, videos, and portfolio websites. Integrated React, Flask, Tailwind, Gemini API, and Hugging Face.

AWS Free Tier Usage Monitor

- Developed a Python-based tool to track AWS Free Tier usage (EC2, S3, RDS, Lambda) and overall cost in real-time.
- Integrated AWS Cost Explorer API and Boto3 to fetch and analyze hourly usage and spending data.
- Built a CI/CD pipeline with GitHub Actions to run monitoring jobs hourly and generate daily reports (JSON & CSV).
- Implemented real-time alerting to Discord when usage thresholds are exceeded, preventing surprise bills.
- Published a live dashboard for report viewing and open-sourced the code for community Work Experience.

Experience

Data Science Intern — YBI Foundation, Remote, India   *Feb 2024 – Apr 2024*

- Solved real-world data problems using Python and SQL; assisted in dataset cleaning/preprocessing
- Gained hands-on experience with data visualization and basic machine learning algorithms

Co-Founder & Social Media Head — The Speech Society, UEM Jaipur, Jaipur, India   *Feb 2023 – Jul 2024*

- Initiated/scaled public speaking community (300+ students); managed social content, increased event participation by 40%
- Led organization of 8+ events and 2 major annual fests

Education

B.Tech – Computer Science and Engineering   *CGPA: 7.5*

- University of Engineering & Management, Jaipur, India

Intermediate   *75%*

- Saraswati Vidya Mandir, Sinidih (CBSE)

Matriculation   *75%*

- Saraswati Vidya Mandir, Sinidih (CBSE)

Certifications

- AWS Cloud Practitioner Essentials (Amazon Web Services, 96.66%)
- Foundations of Cybersecurity (Google, 97.03%)
- Python for Data Science (SWAYAM, NPTEL, 71%, Elite + Silver)
- Problem Solving Through Programming in C (SWAYAM, NPTEL, 75%, Elite + Silver)