# Shashank Kumar Singh

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## Professional Summary

Computer Science undergraduate with experience in backend development, DevOps, and AWS. Skilled in building scalable APIs, automating CI/CD, and working with distributed systems. Eager to contribute to innovative backend and DevOps solutions.

## Skills

- **DevOps & Cloud: A**WS (EC2, S3, RDS, Lambda), Azure, Google Cloud Platform (GCP), Docker, Kubernetes, Git/GitHub, GitHub Actions, CI/CD Pipeline Automation, Linux System Administration, Shell Scripting, Bash, Ansible, Jenkins, Terraform, Infrastructure as Code
- **Backend & Programming:** Python (Flask, Django), SQL, REST API Development, Data Structures & Algorithms

## Projects

**Full-Stack CI/CD Deployment on AWS**

- Architected and deployed a containerized full-stack application with Node.js (Express) frontend and Flask backend using Docker and Docker Compose on AWS EC2
- Implemented comprehensive CI/CD pipeline using GitHub Actions, automating deployment processes on every push to main branch with 100% success rate
- Configured secure SSH access, environment variables, and Elastic IP mapping, ensuring persistent access and zero-downtime deployments

**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

**DevOps Intern** — AlienHouse Networks, Remote, India                                  *Sep 2025 – Present*

- Support deployment, hosting, and maintenance of applications across multi-cloud platforms including AWS, Microsoft Azure, and Google Cloud Platform (GCP)
- Assist in comprehensive database management for both SQL and NoSQL systems, supporting data integrity and performance optimization
- Contribute to containerization initiatives using Docker and container orchestration, streamlining application deployment processes
- Support CI/CD pipeline development and automation, helping reduce manual deployment efforts and improve code delivery efficiency
- Participate in monitoring, troubleshooting, and optimizing system and application performance across cloud environments

## Education

**Bachelor of Technology – Computer Science and Engineering**                              *CGPA: 7.2*

- University of Engineering & Management, Jaipur, India

**Higher Secondary Education (Intermediate)**                                                       *75%*

- Saraswati Vidya Mandir, Sinidih (CBSE)

**Secondary Education (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)