Soniya Sharma

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Computer Engineering student with strong knowledge of networking, cloud, and project development. Passionate about cloud integration and DevOps practices, currently focusing on mastering AWS Cloud technologies. Proficient in programming with C, C++, Python, and JavaScript, with expertise in web development using React.js and Django Framework. Actively engaged in integrating DevOps principles to optimize software development processes.

Skills:

Technical Skills:
- Programming Languages: C, C++, Python, JavaScript
- Web Development: HTML, CSS, React.js, Django Framework
- Database Management and DevOps Tools: SQL, Jenkins, Terraform
- Cloud Services: Amazon Web Services (AWS)
- Version Control: GitHub
- Operating Systems and Productivity Tools: Windows, macOS, Linux, MS Office, LaTeX

Analytical skills:
- Demonstrates strong capabilities in problem-solving, data analysis using SQL and Python, debugging, performance optimization, effective presentation, communication, and leadership within collaborative team environments.

Education:

BE in Computer Engineering	Current CGPA-3.7/4
Kathmandu University	2020 to Present
High School	CGPA 3.69/4
Prativa Higher Secondary School, Nadipur, Kaski	2018- 2020

Projects:

Semester Projects:
- Developed an e-learning platform using Django, SQLite, HTML, CSS, JavaScript, and React.js.
  Key Features: Authentication, user dashboard, profile management, chapter and multimedia content management, and course enrollment functionalities.
- Developed a goal tracking web application using HTML, CSS, JavaScript, React.js, PostgreSQL, and Django.
- Created an Air Canvas virtual board with Python, OpenCV, MediaPipe, and Flask. Features include ink pen selection, hand gesture resizing, shape importing, and live drawing with video call integration.
- Developed a Transparent Attendance Tracking Engine using Tkinter, Python, OpenCV, Haar Cascade, LBPH Face Recognizer, and MySQL. Features include recording student details, training the model, taking attendance, and viewing attendance records.

Devops training projects:
1. AWS Web Stack Implementations:
   - Successfully deployed LAMP, LEMP, MERN, and MEAN stacks on Ubuntu instances in AWS EC2.
   - Configured and optimized server environments to ensure seamless operation and performance.
2. Client-Server Architecture with MySQL:
   - Implemented robust client-server architecture using MySQL in AWS.
   - Managed database configurations and ensured reliable data handling and retrieval.

Certifications and Trainings:

- Devops/ Cloud Engineering Training Course offered by Steghub (Ongoing)
- Jenkins Certificate from Kodekloud
- Terraform Certificate from Kodekloud
- Certification of completion of course AWS Academy – Cloud Foundation under "She Can" Mentorship program from AWS User Group Nepal
- Introduction to Python Certificate from Datacamp
- Introduction to SQL Certificate from Datacamp

Additional Activities:

- Design Competition Volunteer, IT Meet
- Net Prefect of Girls Hostel, Kathmandu University
- Member of Cloud Community, Kathmandu University Computer Club

Reference:

- Prof. Sudan Jha, PhD: Department of Computer Engineering, Kathmandu University, Dhulikhel, Nepal.
  Email id: sudan.jha@ku.edu.np
- Asst, Prof. Rajani Chulyadyo, PhD: Department of Computer Engineering, Kathmandu University, Dhulikhel, Nepal.
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