JASPREET SINGH

CLOUD ENGINEERING

Dear hiring manager,

I'm currently pursuing a Bachelor of Computer Applications through Lovely Professional University's distance education program, and I'm looking for an opportunity to contribute to real engineering work while learning from an experienced team.

My hands-on work has focused on Python, backend development, cloud infrastructure, and automation. Through projects such as Pulse CI and GitHub Analyzer, I've worked with technologies including Python, Flask, AWS, Terraform, Docker, PostgreSQL, and APIs. Building these projects has helped me understand how application code connects with infrastructure, deployment workflows, and operational concerns.

I'm interested in building and improving reliable systems, understanding how they work beneath the surface, and taking responsibility for meaningful engineering tasks. I bring a practical learning mindset, curiosity about technical problems, and a willingness to investigate issues rather than rely only on ready-made solutions.

I would welcome the opportunity to contribute to your team and continue developing as an engineer. I'm available for full-time work, with limited time away for my university's semester examinations. You can find my projects and technical work in my portfolio:

https://jaspreet-singh.pages.dev/

Thank you for your time and consideration

Sincerely,

Jaspreet Singh

JASPREET SINGH

GitHub: github.com/jaspreetsingh-dev
LinkedIn: linkedin.com/in/jaspreet-cloud-dev
Portfolio: jaspreet-singh.pages.dev
Email: jaspreetsinghh.dev@gmail.com

PROFESSIONAL SUMMARY

My work spans **Python** application development, **cloud infrastructure**, and **automation**. I build and deploy applications using **AWS**, **Docker**, and **Terraform,** with a focus on understanding how systems work, how they are operated, and how they can be improved.

HANDS-ON PROJECTS

Pulse CI

Repository analysis · Webhooks · Cloud infrastructure

- Built a repository analysis application that checks dependencies, tests, documentation, and configuration, then stores a quality score in PostgreSQL.
- Implemented a shared analysis workflow triggered by GitHub webhooks or manual submissions through a Flask application.
- Containerized the application with Docker and deployed it on EC2, with PostgreSQL hosted on RDS inside a VPC.
- Used IAM, Systems Manager Parameter Store, Secrets Manager, and CloudWatch for access control, configuration, and runtime logging.
- Defined AWS infrastructure using Terraform.

Technologies: Python, Flask, Docker, PostgreSQL, AWS, Terraform

GitHub Analyzer

Developer comparison · GitHub API · Scoring model

- Built a Flask application that compares two GitHub profiles using repository statistics and language distribution.
- Developed a weighted Codex Score using five factors: Star Power, Community Impact, Repository Consistency, Documentation Quality, and Language Diversity.
- Integrated the GitHub REST API to retrieve profile and repository data, and used Boto3 to store comparison reports in Amazon S3.
- Used an EC2 IAM role for AWS access, avoiding hardcoded credentials, and defined infrastructure using Terraform.

Technologies: Python, Flask, JavaScript, GitHub REST API, AWS EC2, S3, IAM, Boto3, Terraform

TECHNICAL SKILLS

Core: Python, AWS, Flask, Terraform
Hands-on: Docker, PostgreSQL, JavaScript, SQL
Developing: Linux

EDUCATION

2024–2027 (Expected)
Lovely Professional University
Distance Education · Punjab, India
Bachelor of Computer Applications (BCA)