MAYANK SINGH DHAMI

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SUMMARY

My work is about building infrastructure that is both powerful and pragmatic. As a Engineer, I translate architectural designs into reality, using Terraform, AWS, and Python. My workflow is heavily augmented by AI, which I use to accelerate front-end development, allowing me to focus more time on the core back-end logic and infrastructure security.

EDUCATION

Graphic Era Hill University Haldwani, India

Bachelor of Technology in Computer Science, ***CGPA-7.13*** Graduation:2026

• **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Distributed Systems, Database Management Systems

TECHNICAL PROFICIENCY

- **Languages:** Python, Java, C, SQL, Bash
- **Cloud & DevOps**: AWS (EC2, S3, Lambda, API Gateway, VPC), Terraform, Docker, Kubernetes, GitHub Actions
- **Operating Systems:** Linux (Ubuntu), UNIX, Windows
- **Developer Tools**: Git, VS Code
- **AI-Powered Development:** Leveraging AI tools for code generation, debugging, and frontend development.

PROJECTS

1. Cloud-Auditor | Github July 2025 – Present

Architected and deployed a fully serverless, event-driven application on AWS to automatically scan for security *vulnerabilities* and cost anomalies.
Automated the entire cloud infrastructure deployment using Terraform. Built a serverless backend using AWS Lambda (Python), API Gateway, and DynamoDB. Developed a modern, responsive frontend dashboard with React and Framer Motion.

Tech Stack: AWS (EC2, LAMBDA, DynamoDB, S3), Terraform, Docker, GitHub Actions, Python, React

2. Pulse - Real-Time Reddit Sentiment Analysis Engine | GitHub Feb 25 – July 25

Developed a full-stack, event-driven application to ingest a live stream of Reddit comments, perform AI sentiment analysis using a Hugging Face model, and visualize results on a realtime dashboard.

Architected a distributed system using a microservices approach, with independent containerized services for data ingestion (Python), AI analysis (Python), and frontend communication (FastAPI).
Built a resilient and scalable data pipeline using Redpanda (Kafka-compatible) to handle asynchronous, real-time data flow between all microservices.
Containerized the entire multi-service application using Docker and Docker Compose, creating a reproducible and isolated development environment and demonstrating core DevOps practices.

Tech Stack: Python (FastAPI, PRAW), React.js, Docker, Docker Compose, Redpanda (Kafka), Hugging Face Transformers, WebSockets.

INTERESTS

Cloud Infrastructure (AWS), Automation & DevOps, Financial Trading (Forex, Crypto, Derivatives)