

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 University

Haldwani, India

Bachelor of Technology in Computer Science

Graduation:2026

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

TECHNICAL SKILLS

Category	Skills
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. AWS 3-Tier Highly Available Web Application

July 2025 - Present

- Architected and deployed a fault-tolerant, scalable 3-tier web application for a mock ecommerce platform on AWS to handle high-traffic loads.
- Automated the entire infrastructure provisioning process using **Terraform**, reducing manual setup time by 95% and ensuring environment consistency.
- Containerized the application components using **Docker** and implemented a complete **CI/CD pipeline with GitHub Actions** that automatically builds, tests, and deploys code changes.
- **Tech Stack:** AWS (EC2, ELB, RDS, S3), Terraform, Docker, GitHub Actions, Python (Flask)

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 real-time 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)