# Aman Dinkar

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**Education** — **Lovely Professional University**: B.Tech in Computer Science and Engineering (Sept 2022 - July 2026)
**Relevant Coursework**: Cloud Architecture, Cloud Solutions, Operating Systems, Database Management System, Computer Networks, Data Structures and Algorithms. **Languages Known:** English, Hindi

## Skills

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|---|---|
| **Automation** GitHub Actions, Jenkins | **Database** MySQL, SQL |
| **Cloud** AWS, Apache Cloudstack, Azure | **Tools** Terraform, Docker, Kubernetes, SpringBoot |
| **Languages** Java, Python | **Version Control** GitHub, GitLab |

## Experience

**University Lab Coursework**
AWS Network Infrastructure Implementation

Cloud Infrastructure Engineer

- Designed and implemented a custom **Virtual Private Cloud (VPC)** across multiple **Availability Zones** to enhance fault tolerance and high availability.
- Secured the network infrastructure by configuring **public and private subnets**, along with well-defined **security groups** and **Network ACLs**.
- Deployed and Secured the network infrastructure by configuring **public and private subnets**, along with well-defined **security groups** and **Network ACLs**. .
- Hosted a static website on **Amazon S3**, implementing robust **data protection strategies**, automated **backup procedures**, and disaster recovery mechanisms. .

**Hands On Lab**
Apache CloudStack Infrastructure Implementation

Cloud Platform Engineer

- Successfully deployed and configured **Apache CloudStack** on a Linux-based environment, adhering to industry-standard cloud orchestration techniques.
- Designed and implemented a structured framework to efficiently manage **Pods, Zones, and Clusters** within CloudStack.
- Reduced instance provisioning time by **60%** through automated workflows.
- Implemented efficient resource management across multiple zones.

## Projects

**Spotify Playlist Automation System**
- Engineered an **Infrastructure as Code (IaC)** solution using **Terraform** to automate the management of Spotify playlists.
- Implemented **DevOps best practices**, reducing manual playlist creation time by **90%** through automation.
- Integrated **Spotify OAuth** for secure authentication and authorization.
- Developed **modular and reusable** Terraform configurations to enhance scalability.
- **Tools Used:** Terraform, Docker, Spotify Web API, HashiCorp Configuration Language(HCL), Infrastructure as Code (IaC)

**Cloud Infrastructure Automation**
- Deployed a **Next.js web application** on AWS using **Terraform**, reducing infrastructure setup time by **85%**..
- Leveraged **Docker** for containerization, decreasing server resource consumption by **20%**.
- Configured **Elastic Load Balancer (ELB)** and **Auto-Scaling Groups**, achieving **9**Leveraged **Docker** for containerization, decreasing server resource consumption by **20%**.
- Optimized application performance by storing images in **Amazon S3**, reducing EC2 workload by **30%**.
- Automated build, testing, and deployment pipelines using **GitHub Actions**, accelerating release cycles by **60%**.
- Integrated testing and linting, improving code quality by **30%**.
- **Tech Stack** : AWS (EC2, ELB, S3), Terraform, Docker, GitHub Actions, Bash

## Interpersonal Skills

**Department of Student Organisation**                                           **Dec 2022 – March 2025**
- As a Senior coordinator Spearheaded the planning, marketing, and execution of high-profile events, including **Coke Studio Bharat**, the **Annual NASA Convention,** and various university-wide engagements.
- Developed and implemented strategic marketing campaigns, driving significant event participation and maximizing visibility across diverse audiences.