Tapas Singhal

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EDUCATION

Bachelor of Technology, Computer Science and Engineering *July 2025*
Vellore Institute of Technology, Bhopal, Madhya Pradesh CGPA: 8.85
Relevant Courses: Cloud Computing and Services, Microservices and Containerization, Cloud Automation Tools

XII *July 2020*
Simpkins Public School, Agra, Uttar Pradesh 87%

X *May 2018*
Holy Public School, Agra, Uttar Pradesh 90.4%

SKILLS

Programming Languages: Python, Java, SQL
DevOps & Development Tools: Docker, Kubernetes, CI/CD, Terraform, Linux, Git, Django Framework
Cloud Platforms: Amazon Web Services (AWS), Google Cloud Platform (GCP)

PROJECTS

End-to-End DevOps Kubernetes Three-Tier Project (Team project) *In progress - December 2024*
- Designed a three-tier architecture for a restaurant management system using Django and AWS, integrating DocumentDB for scalable database management and S3 for efficient file storage.
- Developed containerized deployment with Docker and orchestrated application scaling with Kubernetes, ensuring high reliability.
- Automated Terraform Infrastructure Provisioning, ensuring consistent system updates & Streamlined DNS routing with Route 53.

Cloud-Driven File Management System (Team project) *August 2024*
- Implemented a robust cloud file management solution with EC2 and Elastic Load Balancer, which boosted availability and fault tolerance.
- Leveraged Django integration with S3, which increased storage capacity for scalable file management.
- Refined DNS configurations and routing strategies with Route 53, improving accessibility and reducing latency.
- Designed a plan to integrate a calendar system using AWS services (DynamoDB, API Gateway, Lambda, S3, CloudWatch, SNS), which will enable users to associate files with specific dates and events, enhancing productivity and organization.

BuddyDome: Community Engagement Platform (Team project) *February 2024*
- Orchestrated a Blue/Green deployment strategy on AWS Elastic Beanstalk, delivered smooth transitions and minimal user disruption.
- Enhanced system reliability and response time by integrating Django with RDS PostgreSQL, ensuring 99.9% uptime.
- Optimized system performance by integrating CloudWatch for real-time monitoring, achieving 24/7 system oversight, and improving issue detection and resolution efficiency through effective logging and versioning.

VOLUNTEER EXPERIENCE

Google Cloud Arcade Facilitator *October 2023*
- Orchestrated Google Cloud Arcade 2023, engaging more than 800 global participants through tailored support and interactive sessions, which led to improved user satisfaction and engagement metrics.

ACHIEVEMENTS AND EXTRACURRICULAR

- Recognized as an **AWS Community Builder** in the Dev Tools category as of August 2023; fostered interaction and growth among more than 2,000 members, strengthening community engagement and support.
- Open-Source Contribution — Contributed to **Hacktoberfest 2023** submitting 4+ pull requests, which improved code quality.

CERTIFICATES

Google Cloud Digital Leader (December 2023), AWS Cloud Practitioner (May 2023)