

Sai Ram Peruri

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Professional Experience

Teaching Assistant & Student Grader | University of Massachusetts Lowell

Aug 2024 – May 2025

- Evaluated and graded homework assignments, projects, and coding exercises for AWS Cloud Computing and C/C++ courses, ensuring accuracy and fairness in assessments.
- Provided constructive feedback on cloud computing concepts, AWS services, C/C++ programming techniques, and best practices to enhance student learning.
- Maintained detailed records of student scores and submitted grades promptly using Blackboard.

Infrastructure Engineer | Tata Consultancy Services

Jan 2022 – Dec 2023

- Designed and provisioned scalable cloud infrastructure on AWS and Azure using Terraform, implementing Infrastructure as Code (IaC) for EC2, RDS, S3, IAM, and VPC resources, improving deployment consistency by 30% and reducing costs by 25% through reserved instance and auto-scaling strategies.
- Developed reusable Terraform modules and leveraged remote state management and workspaces to streamline environment-specific deployments (dev/test/prod), reducing configuration drift and manual provisioning errors by 40%.
- Integrated Terraform with CI/CD pipelines (GitHub Actions, Jenkins) to enable automated plan/apply workflows, policy enforcement, and version-controlled infrastructure changes, resulting in a 60% faster rollout process.
- Implemented Terraform validation and testing workflows using tfint, terraform-docs, and terraform plan automation to ensure infrastructure changes met compliance and stability requirements.
- Collaborated with application teams to migrate legacy cloud resources to Terraform-managed infrastructure, improving auditability and documentation while reducing unmanaged resource sprawl.

Project Experience

Terraform GCP Resources – Blueprints – Multi-Service GCP Infrastructure

Jun 2025 – Jul 2025

- Provisioned a production-ready GCP infrastructure (40+ resources) using modular Terraform, covering VPC, Compute Engine, Cloud Storage, Cloud SQL, BigQuery, Firestore, and Redis.
- Implemented custom networking (VPC, subnets, Cloud Router, NAT Gateway) with firewall rules, workload identity, and IAM for secure role-based access control.
- Deployed Cloud Run and Cloud Tasks for serverless workloads, integrated logging, alert policies, and uptime checks for observability.
- Configured lifecycle policies, storage versioning, and audit logging for compliance and data security.
- Tech Stack: GCP (VPC, Compute, IAM, Cloud SQL, BigQuery), Terraform, Linux, Bash, Monitoring

Automated Deployment of OpenWebUI on GCP with Vault-secured Credentials

May 2025 – Jun 2025

- Provisioned GCP infrastructure using modular Terraform (VPC, Compute Engine, IAM, firewall rules).
- Deployed OpenWebUI in Docker + NGINX, secured via TLS certificates and Vault-managed secrets.
- Automated full-stack deployment with Bash scripting, systemd, and remote SSH provisioning.
- Integrated HashiCorp Vault for secure credential management and dynamic admin auth.
- Focused on network security, role-based access, and reusable IaC design.
- Tech Stack: GCP, Terraform, Vault, Docker, Linux, Bash, NGINX

Education

Master of Science in Computer Science, University of Massachusetts Lowell

Jan 2024 – May 2025

Coursework: Algorithms, Computer Network Security, Data Science, Advanced Cloud Computing, Operating Systems

Skills

Cloud & Database: GCP, AWS, Azure, MongoDB

Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, PyTorch

Operating Systems: Red Hat Enterprise Linux 7/8/9 & AIX

Programming Languages: Python, C++

Tools: Check-mk, Docker, Jenkins, Kubernetes, Terraform, SSH, putty, Jira, tfint, WinSCP

Version Control: GitLab, Bitbucket, Azure DevOps, GitHub

Certification

- AWS Certified Solution Architect – Associate
- Microsoft Certified – Azure Administrator Associate
- Hashicorp Certified- Terraform Associate