

SAI CHARANTEJA

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EDUCATION

Southern Methodist University, Dallas, TX, USA

Master's in Network Engineering

Aug 2021 – May 2023

GPA – 3.92/4.0

Relevant Courses: Advanced Cloud Engineering, DevOps Engineering, Linux and Python Programming

Anna University, Chennai, INDIA

Bachelor of Technology in Electronics and Communication Engineering

Aug 2017 – May 2021

GPA – 8.3/10.0

WORK EXPERIENCE

DevOps Cloud Engineer | Self-Employed | Dallas, Tx, USA

Aug 2021 – Present

- Working as a DevOps Cloud Engineer, leveraging the top three cloud providers: AWS, Azure, and GCP
- Utilized Terraform to engineer AWS resources, achieving a 70% code reusability in infrastructure creation
- Managed application container pods to achieve an average uptime of 99.5%, enhancing user experience and satisfaction
- Monitored Kubernetes clusters using Prometheus and Grafana, reducing incident response time
- Streamlined continuous integration and delivery processes, resulting in a 25% reduction in deployment time
- Reduced incident response time by using automated Slack alerts for quick issue detection and resolution
- Optimized performance by analyzing metrics and logs, improving resource utilization and reducing downtime

Cloud Engineer-Teaching Assistant | SMU | Dallas, Tx, USA

Dec 2021 – May 2023

- Worked as Teaching Assistant for Cloud Engineering course at Southern Methodist University
- Collaborated in designing course content and exam materials, resulting in a 15% increase in student enrollment
- Demonstrated complex topic communication, achieving an average student evaluation rating of 4.8/5

Customer Support | SMU | Dallas, Tx, USA

Aug 2021 – Dec 2021

- Conducted over 100 periodic checks of student-athletes, ensuring consistent attendance and academic progress
- Resolved 95% of escalated issues within designated timelines, providing efficient and effective customer support

TECHNICAL SKILLS

Cloud & DevOps: AWS, Azure, GCP, Kubernetes, Terraform, Docker, GitHub, Ansible, Prometheus, Grafana, Jenkins CI/CD, Argo CD, Git, Infrastructure as Code (IAC), Microservices, GitOps

Tech Stack: PyCharm, VS Code, TCP/IP, VMware, vSphere, TCP, UDP, OSI model, DHCP, DNS, SMTP, SSH, HTTP/S, IPv4

Operating Systems: Linux (Ubuntu, Centos, Red Hat), Windows, MAC

Programming/Scripting Languages: Python, Bash, YAML

Databases: AWS RDS, MySQL

ACADEMIC PROJECTS

Netflix Clone (GitHub | Portfolio | Website)

Oct 2023 – Nov 2023

- Containerized Netflix clone application and orchestrated its deployment on AWS EKS via a CI/CD pipeline
- Tech Stack: AWS, Docker, Jenkins, ArgoCD, Trivy, SonarQube

Kubernetes Administration (GitHub | Portfolio | Website)

Mar 2023 – May 2023

- Partnered with a professor to create a focused Kubernetes course, emphasizing crucial topics and best practices
- Integrated Kubernetes concepts into an existing course, leading to a significant 20% surge in enrollment
- Tech Stack: Kubernetes, Docker, Containers, Linux, AWS, GCP

Highly Available Three-tier Architecture Using Terraform (GitHub | Portfolio | Website)

Feb 2023 – Mar 2023

- Implemented a 3-tier application with Terraform, elevating system availability and fault tolerance
- Shared insights on LinkedIn, resulting in a 20% increase in professional network connections
- Tech Stack: MySQL, Terraform, IAM, IaC, Load Balancers, Security Groups

HONORS & CERTIFICATIONS

AWS Certified Solutions Architect Associate (AWS-Badge)

Certified Kubernetes Administrator (CKA-Badge)

Fundamentals of **AWS, GCP, and Azure** (Cloud-Badges)

HashiCorp Certified Terraform Associate (TRAINED)

Received acknowledgment in the book "Cloud Technologies and Services" authored by my professor