SAI CHARANTEJA

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SUMMARY

Cloud/DevOps engineer and graduate at the Southern Methodist University, with 2 years of professional and academic experience. Possess strong problem-solving and interpersonal skills, proficient in Cloud technologies and DevOps methodologies, excelling in the design, implementation, and optimization of cloud infrastructure. Passionate about contributing technical expertise to elevate collaborative projects and drive innovation within teams

TECHNICAL SKILLS

Cloud & DevOps: AWS, 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 Databases: AWS RDS, MySQL
Scripting Languages: Python, Bash, YAML
Training & Certifications: AWS Certified Solutions Architect Associate (AWSBadges), Certified Kubernetes Administrator (CKABadge), HashiCorp Certified Terraform Associate (TRAINED)

WORK EXPERIENCE

Cloud Engineer-Teaching Assistant | *SMU | Dallas, Tx, USA*   Dec 2021 – May 2023
- Collaborated with the instructor to design course content, review assignments, and develop exam materials
- Facilitated learning for a class of around 50 students by providing coursework support
- Demonstrated effective communication of complex topics with an average rating of 4.8/5 in student evaluations

Student Support | *SMU | Dallas, Tx, USA*   Aug 2021 – Dec 2021
- Conducted over 100 periodic checks of student-athletes to ensure regular attendance in classes
- Assisted around 80 students with Network Configurations and troubleshooting computers
- Successfully resolved 95% of escalated issues within designated timelines, ensuring the best customer support

PROJECTS (GITHUB | PORTFOLIO)

YouTube Clone With DevSecOps*(Slack | Security | Splunk)*   Oct 2023 – Nov 2023
- Streamlined deployment processes using ArgoCD, contributing to a 15% improvement in deployment efficiency
- Implemented Slack for real-time communication, Splunk for log analysis, Prometheus and Grafana for robust monitoring

Netflix Clone*(Argo CD | AWS EKS | Security)*   Sep 2023 – Oct 2023
- Implemented cutting-edge tools and Jenkins plugins resulting in 25% boost in CI/CD pipeline efficiency
- Integrated Trivy and achieved a 30% reduction in security vulnerabilities with the container images used in the application

EKS Microservices-Prometheus & Grafana *(Monitoring logs | Terraform | Kubernetes)*   Aug 2023 – Sep 2023
- Successfully established an EKS cluster using Terraform, achieved an 80% reusability rate for deployment configurations
- Achieved a notable 20% reduction in deployment time, coupled with real-time monitoring using Prometheus and Grafana

End-to-End Delivery of Software using CI/CD *(AWS EKS | Jenkins | Argo CD)*   Jul 2023 – Aug 2023
- Achieved a 15% boost in deployment speed and reliability through the combination of Jenkins CI & Argo CD automation

Kubernetes Administration *(CKA | Kubernetes | Kubeadm)*   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

Highly Available Three-tier Architecture Using Terraform *(AWS | IAC | Documentation)*   Feb 2023 – Mar 2023
- Implemented a 3-tier application with Terraform, elevating system availability and fault tolerance
- Shared 3-tier application insights on LinkedIn, resulting in a 20% increase in professional network connections

Cloud-Native-Monitoring-Application on AWS EKS *(AWS | Docker | Python)*   Jan 2023 – Feb 2023
- Developed a Python application for monitoring server CPU and memory usage, containerized and deployed it on AWS EKS

EDUCATION

Southern Methodist University, Dallas, TX, USA   Aug 2021 – May 2023
Master's in Network Engineering   *GPA – 3.92/4.0*

Coursework:Advanced Cloud Engineering, DevOps Engineering, Network Protocols, Linux and Python Programming

Anna University, Chennai, INDIA   Aug 2017 – May 2021
Bachelor of Technology in Electronics and Communication Engineering   *GPA – 8.3/10.0*