SAI VENKATA CHAITANYA CHITTURI

chaitanyachitturi99@gmail.com | (703)-862-0600 | LinkedIn | Blacksburg, VA

SKILLS

- Programming Languages & Scripting: Python, HTML/CSS, Bash, YAML.
- DevOps & Infrastructure Tools: Terraform, Kubernetes, Docker, Jenkins, Microservices.
- Networking Protocols: TCP/IP, HTTP, HTTPS, UDP.
- Cloud Technologies: AWS, GCP, EC2, S3, AWS IAM, CloudWatch, CloudFormation, CodePipeline.
- Version Control & Source Management: Git, GitHub, GitLab.
- Operating Systems: Linux, Windows, MacOS.
- Databases & Query Languages: MySQL, Oracle, MongoDB, Amazon RDS, SQL.
- Issue & Project Tracking: JIRA.
- Tools: Visual Studio Code, Eclipse, MySQL Workbench, MongoDB Compass, Splunk.

EXPERIENCE

Cloud Engineer
Virginia Tech   04/2024 – Present

- Optimized AWS infrastructure by right-sizing resources and leveraging autoscaling for reliable, scalable analytics delivery.
- Automated deployments using Terraform and GitLab CI/CD pipelines, minimizing manual intervention and increasing consistency.
- Strengthened security by designing and implementing IAM roles, MFA and least-privilege policies across cloud environments.
- Improved infrastructure maintainability and scalability by refactoring and modularizing IaC templates.
- Deployed advanced analytics applications using Amazon Bedrock, Bedrock Agents, and integrated prompt/flow components.
- Reduced cloud costs by 25% through migrating AWS Transfer Family to EC2-based SFTP and setting up automated S3 lifecycle policies.
- Used Python and AWS Lambda to automate resource management and ensure compliance with regular credential audits.
- Integrated AWS S3 with Splunk for centralized logging and actionable operational insights.
- Designed and implemented reserved instance plans for EC2, ElastiCache, and RDS to optimize resource utilization and lower costs.
- Authored user-friendly documentation to onboard analysts and scientists to cloud data and compute resources.
- Acted as primary point of contact for cloud infrastructure, resolving technical inquiries and supporting end-users.
- Developed a custom Python CLI utility using Click to streamline routine operational tasks, including access key rotation and secure vault logins.

Cloud Engineer
Wynbit Inc., USA   08/2023 – 04/2024

- Provisioned and managed AWS cloud resources to support the availability and reliability of mission-critical healthcare applications.
- Automated Linux server deployment and configuration for microservices, ensuring seamless releases and secure operations.
- Applied industry best practices to optimize resource allocation, automate monitoring, and elevate cloud infrastructure performance.
- Engineered Jenkins CI/CD pipelines, speeding up code deployments by 30% and enabling rapid integration of new healthcare features.
- Developed Python and YAML-based CloudFormation IaC templates, reducing manual configuration and standardizing infrastructure workflows.
- Enhanced system scalability and resource utilization by leveraging Docker and Kubernetes for robust container orchestration.
- Improved database performance in AWS through advanced SQL management, supporting analytics and secure medical records.
- Used Git for source control and facilitated agile collaboration across multidisciplinary development and engineering teams.

Software Engineer
Data Stratics, India   05/2020 – 08/2021

- Built highly available, scalable cloud environments using EC2, S3, RDS, ELB, Auto Scaling, and CloudFormation.
- Set up S3 buckets to streamline artifact management and secure batch file storage, optimizing data workflows.
- Migrated on-premises MySQL to multi-AZ RDS, cutting maintenance and boosting database efficiency by 40%.
- Reduced app downtime by 20% with CloudWatch monitoring and automated SNS alerts for proactive incident response.
- Automated data backup and retention by configuring S3 versioning, lifecycle policies, and Glacier archival for compliance.
- Collaborated with cross-functional teams to resolve tier 3 support issues, escalating challenges for timely resolution.
- Managed Git branches and merges, ensuring smooth collaboration and code integrity across development cycles.

EDUCATION

MS in Information Systems   08/2021 – 05/2023
George Mason University, VA

CERTIFICATIONS

AWS Certified Cloud Practitioner, AWS Certified AI Practitioner, Google Certified Associate Cloud Engineer, AWS Certified Solutions Architect – Associate, Certification in Agile Software Development, Certification in Python from Coursera.

TRAINING

- Completed Lead 4 Success leadership training at Eckard College by Centre for Creative Leadership.
- Attended a workshop on virtualization by VMWare.