**SAI VARUN SAMINENI**

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**Summary:**

I am a DevOps Engineer holding a Master's degree in Computer Networking and possessing over 6 years of hands-on experience in the realm of Cloud technology. With a solid track record of 4+ years in AWS and 2 years in Azure, I bring a comprehensive understanding of cloud ecosystems to the table.My proficiency shines through as I leverage cutting-edge tools like Kubernetes, Jenkins, Ansible, and Terraform to successfully execute daily tasks. My expertise extends further with advanced scripting abilities in Shell and Python, enabling me to drive automation and efficiency across systems.My role isn't limited to technical prowess; I excel as both a collaborative team member and an effective leader. My commitment to enhancing systems through streamlined automation processes underscores my passion for fostering operational excellence.

# EDUCATION:

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| **Alcorn State University, Lorman, MS**  **Master’s in computer Networking** |  | **Aug 2015-May2017** |
| **Coursestaken**:Research Method In AS&T, Project Management, Enterprise Web Applications, Intro to Academic Writing, Network Mgt Technology, Math Meth for AS&T, Computation in AS&T, Cloud Service & Infrastructure, Manage for Tech Innovation, Distributed System Cloud Comp, Data Science Big Data Analytic, Network Security.  **Bachelor’s in computer science** From JNTU, Hyderabad, India. Graduation year Jun 2014. | | **GPA**: **3.50** |

# Technical Proficiencies:

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| **Cloud/Virtualization Technologies** | Amazon Web Services (AWS) Azure Cloud |
| **Version Control Tools** | SVN, Bitbucket and GIT |
| **Build Tools, CI Tools, Config, Management Tools** | ANT, MAVEN, Jenkins, Vault, Terraform and Ansible |
| **Bug/Issue Tracking** | JIRA, ServiceNow, and Market Place |
| **Scripting/Programing Languages, Artifactory** | Shell and Python/ Nexus |
| **Web/ Application Servers** | Apache Tomcat and Web logic |
| **Operating Systems** | Windows Family, Linux, Ubuntu, and CentOS |

# PROFESSIONAL EXPERIENCE:

**LexisNexis, Alpharetta, GA**

**Site Reliability Engineer Dec 2021 – Present**

# Managed and improved Kubernetes setups in Azure Cloud for smooth application deployment and scaling.

# Expertly manage blue-green cluster deployments, ensuring seamless application updates with minimal downtime.

# Implement the blue-green deployment strategy to maintain high availability and mitigate risks during software releases.

# Developed and improved CI/CD systems using tools like GitHub actions Jenkins to speed up software delivery.

# Led the adoption of Docker to bundle apps neatly, making deployment smoother across different setups.

# Ensured data safety using HashiCorp Vault, protecting secrets and maintaining strong security.

# Automated tasks using Rundeck, making routine jobs easier and boosting system dependability.

# Used Ansible to set up infrastructure systematically, making resource management consistent in different environments.

# Oversaw infrastructure using infrastructure as code (IAC) Terragrunt, supporting efficient teamwork and control over changes.

# Guided the migration from local to cloud-based virtual machines, boosting flexibility and efficiency.

# Monitored system performance using Grafana, spotting issues early and keeping user experience optimal.

# Crafted Helm charts for complex applications, enabling seamless deployments, upgrades, and rollbacks.

# Collaborated with diverse teams to set standards and build a culture focused on reliability and scalability.

# Led incident response efforts, learning from issues to improve system strength and performance.

**Sunquest Information Systems, Tucson, AZ Remote**

**Cloud DevOps Engineer Jun 2021 – Dec 2021**

* Worked in Amazon Web Services (AWS) tools such as VPCs, EC2, EBS, RDS, AIM, Systems Manager, Managed Directory, CloudWatch,

CloudTrail, and CloudFormation. Also familiar with other virtualization technologies.

* Boosted efficiency by developing an Ansible playbook for automated LIMS deployment, resulting in quicker project completion.
* Experienced with Azure DevOps, optimizing code within its framework and leading projects that streamlined deployment through Azure pipelines.
* Monitored system performance using Datadog, spotting issues early and keeping user experience optimal.
* Innovatively automated AWS RDS backup processes using Terraform Infrastructure as Code (IAC) development, increasing effectiveness.
* Led the successful deployment of NCBI using Terraform, ensuring smooth cloud infrastructure.
* Key contributor to security efforts, ensuring up-to-date and secure systems by managing dependencies like Python, Java, Helm charts, and repository URLs.
* Proficient in designing and implementing processes, including setting up AWS accounts and automating instance launches with Ansible and Terraform.
* Drove the adoption of efficient DevOps processes, improving day-to-day operations.
* Established and maintained Continuous Integration (CI) and Continuous Deployment (CD) practices, accelerating project speed and reliability.
* Guided cross-functional teams, refining operations through careful reviews and continuous improvements.

**Edelman Financial Engines, Santa Clara, CA**

**AWS DevOps Engineer Nov 2020– May 2021**

* I specialize in creating and overseeing systems to ensure consistent project delivery for Analytics Office across various environments—production, test, and development. My primary focus is on enhancing security by automating safety measures and implementing monitoring using Amazon Web Services (AWS).
* In the AWS environment, I construct scalable systems using services such as IAM, VPC, EC2, S3, CloudWatch, and CloudFormation. I write code that defines our infrastructure, utilizing CloudFormation and/or Terraform.
* I provide comprehensive support for assets like Tableau dashboards and data pipelines on AWS, while also contributing to special projects, including those related to machine learning. I explore new concepts on AWS to assess potential benefits for our team.
* My expertise lies in running analytics applications on AWS, and I play a crucial role in streamlining the Analytics team's build, test, and delivery processes.
* In my work, I employ tools like GIT for source control and CI/CD tools to automate development and IT operations. I ensure seamless application performance in a PCF environment by automating deployment, managing pipelines, and effectively troubleshooting issues.
* I maintain system integrity through regular snapshots, backups, and instance management. My responsibilities encompass deploying new changes to existing applications in both development and production settings.
* I excel in analyzing complex application requirements and devising technical strategies to enhance build, release, and deployment processes.
* My skillset extends to using Ansible for updating software versions—Python, pip, AWS cli, and airflow. I'm also involved in introducing Ansible Tower to the Data Engineering team as part of an ongoing exploration.
* Furthermore, I manage user accounts and access groups using Jenkins and AWS IAM through Terraform, ensuring a secure and organized environment.

**Apple, Austin, TX**

**DevOps Engineer Jul2020–Nov 2020**

* In my role as a DevOps Engineer, I've been actively involved in enhancing the efficiency and reliability of application deployments. Some of my key accomplishments include:
* Creating Ansible playbooks to facilitate seamless application deployments.
* Automating processes through shell and python scripts, optimizing the Release mastering process.
* Developing automation scripts for Git-repo tasks such as branch creation, modifying pom.xml files, and creating temporary branches.
* Implementing end-to-end automation, including the creation of Pull Requests (PRs) for target branches in Git-repo.
* Utilizing Rio to trigger jobs and workflows, simplifying the execution of various scripts through artyfactory files.
* Streamlining workflows by integrating Jenkins-based processes into Rio.
* Ensuring application quality through Postman testing and issue identification.
* Employing AWX to initiate template jobs for existing applications.
* Documenting processes comprehensively in Wiki or Confluence for team reference.
* Leveraging Splunk for monitoring application results, including security checks, unit tests, and Sonar tests.
* Crafting script-generated result reports for applications, along with individual result reports for easy reference in Wiki or Confluence.

**TIAA,Charlotte, NC**

**DevOps Engineer Oct 2019 – Jun 2020**

* I created customized forms in Marketplace and ServiceNow, allowing parameters to be passed dynamically for automated process deployment. Additionally, I designed templates and set schedules to trigger playbooks effectively.
* My role involved developing Ansible playbooks and modules, while also configuring and managing IT automation solutions. I collaborated with clients to understand their automation requirements, aligning services with Enterprise DevOps standards using tools like Maven, Jenkins, UDeploy, Gradle, GitHub, Artifactory, Puppet, and Ansible.
* I specialized in analyzing intricate application build, release, and deployment needs, translating them into technical specifications for automation. My scripting skills played a crucial role in this process.
* I contributed to the development of Chef/Ansible artifacts and resolved issues, actively participating in implementing the organization's configuration management roadmap.
* Lastly, I prepared both high-level and detailed technical design documentation for all customizations.

# ADP, Alpharetta, GA

# AWS DevOps Engineer Mar 2019 – Sep 2019

* I adhere to the agile methodology and oversee weekly and daily release management. I specialize in creating robust and scalable infrastructure on AWS cloud, utilizing a range of AWS services including EC2, VPC, Auto Scaling, ELB, EBS, AMI, SNS, SSM, Lambda functions, API Gateway, IAM, CloudWatch, CloudFormation, TCP, S3, and Route 53.
* One of my accomplishments includes automating the build and deployment processes for clients, including multiple JVMs running within EC2 instances. I have streamlined this procedure to encompass all necessary pre-requisites, making it as simple as a single click.
* I've excelled in deploying multiple clients within EC2 instances, offering dynamic parameter inputs such as client instance IDs, ports, Database connections, language packs, and service packs.
* In order to enhance efficiency, I developed a Lambda function that executes a CloudFormation template, building clients in AWS with all required parameters. I've successfully integrated this process via API invocation and CloudWatch.
* I'm deeply committed to fostering continuous integration and delivery, employing Jenkins and Ansible for seamless docker image building and deployment. My proficiency extends to Kubernetes, where I efficiently manage, scale, load balance, and oversee Docker containers across multiple namespace versions.
* Within the realm of Kubernetes, I effectively manage containerized applications by utilizing nodes, Config Maps, selector services, and deploying application containers as Pods.
* I've utilized Groovy to construct Jenkins pipelines, alongside leveraging the Tomcat application server. My expertise also extends to supporting and developing microservices architecture applications through work on Pom.xml.

**Graduate Research Assistant - E-commerce Platform (Alcorn St University) Jan 2018 – Feb 2019**

* I have constructed a comprehensive e-commerce and reselling platform catering to university needs. The platform enables users to explore and purchase university-related items such as t-shirts, backpacks, and gently-used books.
* My role encompassed the design and development of microservices including customer management, product listing, order processing, payment handling, and shipping logistics. These microservices were developed using Spring Boot, ensuring a streamlined and efficient structure.
* In addition, I established a robust database schema using PostgreSQL, adhering to principles of Database Normalization for optimal data organization.
* For order management, I crafted RESTful APIs to support individual orders and incorporated Apache Kafka for asynchronous communication when handling bulk orders.
* The platform offers diverse shipping and delivery options, such as on-campus pickup, curbside delivery, and home shipping. Notably, it enables split payment functionality, allowing customers to use two credit cards for a single order.
* In another project, I developed a media-focused website akin to Netflix. This involved deploying the application on Amazon EC2. For seamless on-demand video streaming, I harnessed Amazon S3 for storage, Amazon Elastic Transcoder for video processing, and Amazon CloudFront for content delivery.
* To enhance user experience, I utilized both built-in browser APIs and XHR to prefetch essential resources such as HTML, CSS, and JS. This led to a significant 30% reduction in Time-to-Interactive, optimizing the platform's responsiveness.

# Fininfocom, Hyderabad ,India

# Unix/Linux Administrator Jul 2014 –Jul2015

* In my role as a Systems Administrator, I managed Red Hat 3/4, CentOS 3/4, and Ubuntu 6.06/7.04 servers. I conducted tasks such as patch application, installation of monitoring tools, and BIOS upgrades on HPC clusters. I efficiently scheduled users for High Performance Computing tasks on our Linux cluster.
* A key aspect of my responsibilities involved creating and managing user accounts and groups, ensuring proper quota assignments and ACL setups aligned with company requirements. I proactively identified and resolved issues and errors to maintain smooth operations.
* I extended my support to Linux Servers with Oracle Database servers, applying patches and addressing any technical challenges that arose. Additionally, I undertook Kernel tuning and patching, enhancing system performance and reliability.
* Monitoring system performance and optimizing processes for efficiency were integral to my role. I conducted troubleshooting for application problems by conducting thorough diagnostics, ensuring swift resolutions.