

# Vamsi Krishna Reddy Lekkala

Worcester, Massachusetts, USA | [vamsy.24@gmail.com](mailto:vamsy.24@gmail.com) | +1 (774) 519-0693

[linkedin.com/in/vamsi-krishna-reddy-lekkala-4b9150a7](https://linkedin.com/in/vamsi-krishna-reddy-lekkala-4b9150a7) | [github.com/vamsikrishna2421](https://github.com/vamsikrishna2421) | [vamsikrishna.info](https://vamsikrishna.info)

## Summary

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With 2 years at Nokia and a Master's in Computer Science, I'm a dynamic Solution Engineer deeply immersed in Telecom-based Cloud Technologies. My passion lies in Cloud, Devops, Linux and Automation. I excel in transforming complex ideas into efficient solutions, driven by creativity and determination. Eager to explore new horizons, I bring a blend of expertise and enthusiasm to every project, making meaningful contributions to the forefront of technology.

## WORK EXPERIENCE

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### AWS Administrator

Oct 2022 – Sept 2023

Revcare Analytics | Princeton, New Jersey

- Strategic Network Architect: Orchestrated secure VPC solutions by meticulously configuring Network ACLs, Security Groups, and Public and Private Network settings. Ensured the fortification of digital assets in the cloud environment.
- Expert in PKI and SSL Management: Demonstrated proficiency in Public Key Infrastructure (PKI) and SSL certificate management. Successfully installed and managed SSL certificates, utilizing industry-leading providers such as DigiCert.
- Spearheaded the setup, backup, and management of both Public and Private Certificate Authorities (CAs), ensuring the seamless encryption of data in transit.
- Innovative POC Implementation: Pioneered a Proof of Concept (POC) initiative to establish flawless communication pathways within the software.
- Implemented signed certificates across the communication channels, utilizing Terraform in conjunction with AWS. This innovative approach ensured secure and efficient data exchange throughout the system.

### Solution Engineer | Cloud Specialist

Aug 2020 – Aug 2022

Nokia | Chennai, India

- Strategically Improved Deployment Efficiency: Optimized deployment procedures, resolving bugs, and adding key features to NodeJS and Python-based automation applications, leading to a streamlined deployment process and a boost in overall efficiency.
- Client Project Expertise: Successfully managed three client projects involving the deployment and maintenance of proprietary cloud infrastructure software, including CBIS and CBAM (OpenStack-based Nokia Prop), as well as NCS (OpenShift-based Nokia Prop utilizing Kubernetes).
- Implemented troubleshooting and customization scripts on demand, ensuring seamless project execution.

- **Telecom Service Customization:** Played a pivotal role in deploying Red Hat OpenStack and Red Hat OpenShift-based proprietary software on servers, customized to support telecom services at VNFI level. This included handling all aspects of production environments for France Telecom clients.
- Utilized RedHat and CentOS OS, along with Ansible and Docker for deployment. Expertly documented procedures, conducted regular maintenance, and ensured system health through effective handling of Jira tickets.
- **Innovative Solutions and Client Engagement:** Automated integration testing procedures using ansible and shell scripting, significantly reducing manual testing time in each sprint and enhancing product quality.
- Developed Python scripts to expedite product installations on customer sites, reducing onboarding time by an impressive 200%.
- Proactively engaged with potential customers as the lead developer, providing technical guidance and support. This approach not only drove customer success but also increased product adoption rates by over 20%.
- Actively engaged with potential customers as the lead developer, providing technical guidance and support to drive customer success which increased product adoption by over 20%.
- **Cloud-Native Architecture and Operational Excellence:** Architected and developed a cloud-native version of the product on Kubernetes, packaging it as a Helm chart for effortless deployment, distribution, and versioning.

## PROJECTS

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### Alert Management System

- Engineered a robust alert forwarding system, ensuring real-time notifications by forwarding alerts from Prometheus to Telegram and Gmail. Utilized Ubuntu OS, Prometheus, Alert Manager, Node Exporter, Docker, Telegram, and Gmail.

### Code Quality and Automation

- Integrated Sonarqube for comprehensive validation of Maven and C# projects on GitHub, enhancing code quality and integrity.
- Automated Jenkins job creation using JobDSL scripts, improving job management efficiency.
- Conducted successful Proof of Concept (POC) for Argo-cd setup in Kubernetes, streamlining deployment processes with Kubernetes (K8S) and Argo-cd.

### Infrastructure Automation with Ansible

[View in GitHub](#)

- Spearheaded the automation of Ubuntu and Redhat server installations and configurations using encrypted playbooks and Ansible roles.

### Containerization and CI/CD

[View in GitHub](#)

- Authored Dockerfile scripts for Jenkins, Tomcat, and Apache2 servers on Ubuntu base OS.

- Developed Jenkins scripted pipelines integrated with Maven, Nexus, Tomcat, and Docker, enabling seamless continuous integration and deployment.

## Cloud Backup and Deployment Automation

[View in GitHub](#)

- Implemented periodic incremental backups of on-premise and cloud servers to Amazon S3 buckets using AWS CLI, ensuring data security and disaster recovery.
- Created a shell script automation system for deploying and backing up web applications on remote Tomcat servers.

## CERTIFICATIONS

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**Certified Kubernetes Administrator (CKA)**

[View credentials](#)

**Google Cloud Certified Associate Cloud Engineer**

[View credentials](#)

**Red Hat OpenStack Administration II (CL210)**

[View credentials](#)

**NSW CS&C KMCD L3 CBIS R20 and CBAM R19.5 ICE**

[View credentials](#)

**NSW CS&C KMCD L3 NCS R20 ICE**

[View credentials](#)

**AWS Solutions Architect - Associate (AWS SAA)**

[View credentials](#)

## EDUCATION

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**MSc in Computer Science (MS CS)**      3.9/4  
Clark University (United States)

Sep 2022 - December 2023

**Bachelor of Technology (B. Tech. CS)**      8/10  
National Institute of Technology, Agartala (India)

July 2016 - May 2020

## SKILLS

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DevOps | Kubernetes | AWS | GCP | Openstack | Openshift | Git | Jenkins | Ansible | Chef |  
Terraform | Prometheus | Datadog | Splunk | ELK | NodeJS | Python | Go Lang | JavaScript | Data  
Structures and Algorithms | SQL | Bash | Scripting | Linux | CCNA | Statistics | Machine Learning  
| Blockchain | Tableau | TableauPrep | Communication Skills | Problem solving | Documentation

