

# Narasinga Lokesh Cherukuri

Cloud and DevOps Engineer

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## Professional Summary

Experienced **Cloud and DevOps Engineer** with over three years of expertise in designing, deploying, and optimizing cloud infrastructures. Proficient in AWS, Docker, Kubernetes, Terraform, and CI/CD automation, with a strong focus on improving system reliability, automating workflows, and reducing cloud costs. Adept at leveraging Infrastructure as Code (IaC) to build scalable, high-availability architectures.

### Key Highlights:

- Built **CI/CD pipelines**, reducing deployment times by **70%**
  - Automated infrastructure provisioning using **Terraform and Ansible**, reducing manual errors by **90%**
  - Designed **AWS cloud architectures** with **99.9% uptime** for mission-critical applications
  - Optimized **cloud costs**, saving **30% annually** through efficient resource allocation
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## Education

### Masters in Computer Science

University of Central Missouri, MO, USA | *Aug. 2023 – Present* | GPA: 3.57/4.0

### Bachelors in Computer Science

Gitam University, Visakhapatnam, India | *Jun. 2016 – May. 2020* | CGPA: 8.02/10

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## Skills

- **Cloud Platforms:** AWS, Google Cloud, Azure
  - **Containerization & Orchestration:** Docker, Kubernetes, Helm
  - **Infrastructure as Code (IaC):** Terraform, AWS CloudFormation
  - **CI/CD & Automation:** Jenkins, GitHub Actions, Ansible, Python Scripting
  - **Security & Compliance:** AWS IAM, VPC, Security Groups, Monitoring & Logging
  - **DevOps Tools:** Git, Linux, Bash, Prometheus, Grafana
  - **Networking:** Load Balancers, Route 53, CloudFront, VPC Peering
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## Professional Experience

### Cloud and DevOps Engineer

ValueLabs, Hyderabad, India | *Dec. 2020 – Jul. 2023*

- Designed and deployed **high-availability AWS architectures**, ensuring **99.9% uptime** for mission-critical applications.
- Built and optimized **CI/CD pipelines** using Jenkins, Docker, and Kubernetes, reducing deployment cycles from **bi-weekly to real-time updates**.
- Implemented **Terraform and CloudFormation**, automating infrastructure provisioning and reducing manual errors by **90%**.
- Led a **cost-optimization initiative** that resulted in a **30% reduction** in cloud expenses by implementing best practices like reserved instances and auto-scaling policies.
- Managed **AWS security and compliance**, enforcing IAM policies, security groups, and logging solutions to mitigate risks.
- Conducted root cause analysis of cloud service disruptions, achieving a **90% resolution rate within 24 hours**.

### Software Engineer

ValueLabs, Hyderabad, India | *Jun. 2020 – Dec. 2020*

- Developed and deployed cloud-native applications using **AWS, Node.js, and MongoDB**, enhancing scalability and performance.
- Automated infrastructure setup with **Ansible and Terraform**, reducing server provisioning time by **75%**.
- Optimized **database queries and caching strategies**, improving API response times by **40%**.
- Integrated cloud monitoring solutions like Prometheus and Grafana to track system health and prevent outages.

## Software Developer Intern

ValueLabs, Hyderabad, India | Dec. 2019 – Mar. 2020

- Assisted in cloud-based application development, implementing **serverless architectures using AWS Lambda**.
- Automated **AWS CloudWatch** alerts for proactive system monitoring and troubleshooting.

## Machine Learning Intern

Grepthor Software Solutions, Hyderabad, India | May. 2019 – Jul. 2019

- Deployed machine learning models on **AWS EC2** and **AWS Lambda** for scalable inference.
  - Conducted **data preprocessing and visualization**, improving model accuracy by **20%**.
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## Certifications

- **AWS Certified Solutions Architect – Associate**
  - **Neural Networks and Deep Learning (Coursera)**
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## Projects

### Cloud Infrastructure Optimization for High Availability

- Designed a **scalable and fault-tolerant cloud infrastructure** using AWS, ensuring **99.9% uptime**.
- Implemented **auto-scaling and load balancing strategies** to handle peak traffic efficiently.

### CI/CD Pipeline Automation for Large-Scale Applications

- Developed a **CI/CD pipeline** using Jenkins, Docker, and Kubernetes, reducing deployment time from **hours to minutes**.
- Automated testing and rollbacks, ensuring seamless software releases.

### Cloud Migration & Cost Optimization

- Led the **migration of legacy applications** to AWS, improving performance by **40%** while cutting **cloud costs by 30%**.
  - Utilized **AWS Cost Explorer and Trusted Advisor** to identify cost-saving opportunities.
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## Leadership & Community Involvement

- Led cross-functional meetings, ensuring **100% on-time delivery of cloud projects**.
  - Coordinated **National Service Scheme (NSS) outreach programs**, distributing **1,000+ sanitation kits** to underserved communities.
  - Active member of **Computer Science Society of India (CSI)**, organizing cloud and DevOps boot camps.
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