

# Narasinga Lokesh Cherukuri

Cloud and DevOps Engineer

Authorized to work in USA | Willing to relocate

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Cloud and DevOps Engineer with around 4 years of experience in designing scalable cloud architectures, automating infrastructure with Terraform and Ansible, and building CI/CD pipelines using Jenkins and Docker. Proven ability to improve system reliability, accelerate deployments, and drive cost optimizations in production environments.

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## Education

### Masters in Computer Science

University of Central Missouri, MO, USA | Aug. 2023 – May. 2025

### Bachelors in Computer Science

Gitam University, Visakhapatnam, India | Jun. 2016 – May. 2020

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## Skills

- **Programming & Scripting Languages:** Python, HTML, Bash, YAML
  - **Frameworks/Libraries:** Angular, Node.js, Flask, Express.js
  - **Cloud Platforms:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure
  - **Containerization & Orchestration:** Docker, Kubernetes, Helm
  - **Infrastructure as Code (IaC):** Terraform, AWS CloudFormation
  - **DevOps & Automation Tools:** Jenkins, GitHub Actions, Ansible, Chef, GIT, Python Scripting, Linux
  - **Monitoring & Logging:** CloudWatch, Prometheus, Grafana, Loki
  - **Security & Compliance:** AWS IAM, VPC, Security Groups, WAF, Security Shield, Guard Duty
  - **Artifact Repositories:** Nexus, Docker Hub, JFrog Artifactory
  - **Networking:** Load Balancers, Route 53, CloudFront, VPC Peering, Firewalls
  - **Databases:** MongoDB, MySQL, Redis
  - **Messaging:** Kafka, AWS SQS, AWS SNS
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## Professional Experience

### ValueLabs

Hyderabad, India

### Senior Software Engineer - Cloud and DevOps

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, **enabling seamless real-time deployments** and **eliminating manual bottlenecks**.
- Automated infrastructure provisioning and configuration management with Ansible and Terraform, significantly enhancing deployment consistency and speed.
- Initiated and Led a **cost-optimization strategy** achieving substantial savings by implementing reserved instances, right-sizing, and auto-scaling best practices.
- **Enforced security and compliance standards** across AWS environments by managing IAM roles, security groups, and centralized logging solutions.
- **Simplified cloud deployments on AWS** by automating processes with Terraform and CloudFormation, making it easier and faster to manage infrastructure and resources like EC2, S3, and RDS.
- **Architected** and deployed comprehensive **monitoring and alerting systems** using **Prometheus, Grafana, and CloudWatch**, ensuring proactive incident response.
- Designed a **resilient and scalable cloud infrastructure** on AWS with auto-scaling and load balancing strategies, **ensuring system stability during high traffic periods**. Validated architecture reliability using AWS **Fault Injection Simulator**.
- **Led cross-functional collaboration**, driving timely and efficient delivery of cloud-based solutions across multiple projects.

- Led **containerization and orchestration initiatives** using Docker and Kubernetes across **both cloud and on-premises environments**.
- Successfully **migrated a legacy on-premises corporate website to AWS** for a multinational client, enhancing availability and reducing operational overhead.
- Built a **robust cloud environment** tailored for a **machine learning platform**, ensuring **high availability and performance** for end-user access.
- Investigated and resolved cloud service incidents through detailed **root cause analysis**, ensuring **rapid restoration of services** and ongoing reliability.
- Delivered **24/7 infrastructure support**, continuously monitoring system health and maintaining comprehensive documentation for deployment, configuration, and troubleshooting processes.

## Software Engineer

*Jun. 2020 – Dec. 2020*

- **Developed and deployed scalable, cloud-native applications** using the MEAN stack (MongoDB, Express.js, Angular, Node.js) and AWS services, contributing to customer-facing projects.
- Developed and deployed cloud-native applications using **AWS, Node.js, and MongoDB**, and Redis, enhancing scalability and performance.
- **Automated infrastructure setup via Ansible and Terraform**, significantly accelerating server provisioning timelines.
- Optimized **database queries and caching strategies** using **Redis**, leading to substantial improvements in **API responsiveness**.
- Supported Kubernetes deployments, **improving application scalability** and container orchestration workflows.

## Software Developer Intern

*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.

## Grepthor Software Solutions

*Hyderabad, India*

### Machine Learning Intern

*May. 2019 – Jul. 2019*

- Deployed machine learning models on **AWS EC2** and **AWS Lambda** for scalable inference.
- Performed data preprocessing and visualization to enhance model performance, resulting in noticeably higher prediction accuracy and reliability.

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## Certifications

- **AWS Certified Solutions Architect – Associate**
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## Projects & Outside Experience

### AskPDF - AI-Powered PDF Query System

- Designed a system that enables **natural language querying of PDFs** using **FAISS vector search and LLMs**.
- Built a **text extraction pipeline** leveraging pdfplumber and optimized **chunking strategies for retrieval**.
- Implemented a **query process** that returns context-awareness responses with source citation.
- Overcame challenges in **text extraction, embedding generation, and response validation** to improve accuracy. Deployed backend services on **AWS EC2**, and integrated **CI/CD pipelines with Jenkins** for automated builds and deployments.

### Fundraising Platform Development

- Designed and developed a **full-stack nonprofit crowdfunding platform** using **React.js, Node.js** and **MongoDB**.
- Implemented **secure user authentication, admin approval workflows, and payment processing** for transparent fundraising. Optimized **database architecture** to efficiently manage **users, campaigns, donations and transactions**.
- Enabled **seamless donor experience** with features like **campaign tracking, refunds** and **extensions**.
- Set up **CI/CD pipelines** using **Jenkins**, with automated testing, Docker builds, and staged deployments.