

# Venu Vardhan Reddy Tekula

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## SUMMARY

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Experienced Software Engineer specializing in Infrastructure, Platform Engineering, and DevOps, with a proven track record of designing, automating, and scaling mission-critical systems across cloud and on-premises environments. Skilled in Linux, cloud-native solutions (AWS, Azure), infrastructure as code (Terraform, Ansible), and container orchestration (Docker, Kubernetes). Adept at optimizing performance, ensuring high availability, and driving operational excellence through robust CI/CD pipelines, monitoring (Grafana, Prometheus), and automation.

## EXPERIENCE

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### BlackRock

Wilmington, DE

#### DevOps Engineer, Analyst

Feb 2025 - Present

- Managed and supported production and pre-production environments for the Aladdin platform, ensuring high availability and performance for mission-critical applications through proactive monitoring, incident response, and system optimization.
- Provided 24/7 operational support, troubleshooting batch processing workflows and interactive applications to resolve latency and scalability issues, leveraging tools like Grafana, Prometheus, and Splunk.
- Automated pre-production environment workflows, including release deployments and production data synchronization, using Python, Ansible, and ServiceNow, cutting manual effort by 40%.
- Supported weekend shifts and U.S. business hours to maintain system reliability, assisting developers with environment troubleshooting and deployment validation.

### NYU Tandon School of Engineering

Brooklyn, NY

#### Software Engineer, Platform Infrastructure

Mar 2023 - May 2024

- Contributed to the development of backend systems for the FloodNet project, building RESTful APIs using Python (Flask) to collect and analyze real-time data, using Kafka, from sensors across NYC for flood monitoring.
- Integrated AWS services such as EC2, Lambda, & S3 to deploy and scale data processing tasks, reducing system downtime by 20%.
- Deployed the application in a microservices architecture using Docker, Kubernetes and Terraform, achieving a 30% increase in deployment efficiency.

### BeeHyv Software Solutions

Hyderabad, India

#### Software Developer

Jan 2022 - Jul 2022

- Contributed to the development of Bahmni, an open-source hospital management system, by building highly scalable backend services using Java (Spring).
- Worked with MySQL and MongoDB to optimize relational and NoSQL databases, improving query performance by 25%.
- Integrated several AWS services, including RDS for managed databases and CloudFormation for infrastructure as code, reducing setup time by 50%.

### Bitergia

Madrid, Spain

#### Backend Developer

Oct 2020 - Dec 2021

- Developed and maintained the backend systems for GrimoireLab and Bitergia Analytics using Python and Django, handling data collection from various repositories to create analytical dashboards.
- Assisted with DevOps processes using Jenkins and Terraform, automating infrastructure provisioning and code deployments.
- Automated CI/CD pipelines with GitHub Actions, resulting in a 50% reduction in release and deployment errors.

## SKILLS

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**Programming Languages:** Python, Go, C++, Java, JavaScript, Bash, SQL, TypeScript

**Backend Technologies:** Django, Flask, Fast API, Node.js, Spring, gRPC, MVC, RESTful APIs, GraphQL, Redis, Nginx, Spark, Kafka, PySpark, OpenSearch/Elasticsearch, Cassandra, Unit Testing

**Databases:** MySQL, MongoDB, PostgreSQL

**Frontend Technologies:** HTML5, CSS3, JavaScript, React, Vue, Vuetify

**Cloud Services:** Amazon Web Services (EC2, CloudFormation, API Gateway, CloudWatch, IAM), Microsoft Azure, GCP

**CI/CD & DevOps:** Jenkins, GitHub Actions, GitLab CI, Docker, Kubernetes, Docker Compose, Grafana, Prometheus, ServiceNow, Terraform, Ansible

**System Design:** Microservices Architecture, High Availability, Scalability, Fault Tolerance, API Design

**Operating Systems:** Linux, Windows, macOS

## EDUCATION

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### New York University, Tandon School of Engineering

Aug 2022 - May 2024

Master of Science, Computer Science

GPA: 3.9/4.0

## ACHIEVEMENTS

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- Selected as part of top 4% to contribute to **Amazon** OpenSearch Project and receive mentorship as a part of OSCI 2023.
- Selected as a student developer for **Google Summer of Code** program in 2020, contributing to the CHAOSS Project.
- Academic **Merit Scholarship** of \$7000 per year as a recognition of my previous academic achievements from New York University.