

Venu Vardhan Reddy Tekula

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EXPERIENCE

BlackRock

Wilmington, DE

Systems Administrator, Mission Control Operations

Feb 2025 - Present

- Manage and support pre-production and production technology environments to ensure the stability, availability, and reliability of business-critical systems supporting the Aladdin platform.
- Maintain and administer computer networks and related computing environments, including computer hardware, systems software, applications, and configuration management.
- Perform data backup, recovery, and disaster recovery operations to ensure data integrity and operational continuity.
- Diagnose, troubleshoot, and resolve hardware, software, and network issues, coordinating replacement of defective components when required.
- Monitor system and network performance using enterprise tools such as Splunk, Grafana, NetApp OnCommand, and HP OpenView, proactively identifying and addressing performance or availability risks.
- Operate and monitor master consoles to ensure batch processes, scheduled jobs, and interactive applications run smoothly across environments.
- Coordinate system access and permissions, ensuring secure and controlled use of infrastructure resources.
- Collaborate with development and platform teams to onboard new applications, validating readiness against standards for resiliency, scalability, and operational support.

NYU Tandon School of Engineering

Brooklyn, NY

Research Assistant

Sep 2024 - Jan 2025

- Collaborated with Prof. Justin Cappos and the Open Source Security Foundation (OpenSSF) to design and develop `lincc`, a tool automating software license compliance for open-source projects.
- Focused on resolving licensing misconfigurations, I integrated static analysis and dependency scanning to align code, documentation, and third-party components with a project's declared license.
- This work streamlined open-source collaboration, advancing scalable solutions for software governance.

SKILLS

Operating Systems: Linux (Unix), Windows Server, system monitoring, system troubleshooting

Networking: TCP/IP, DNS, DHCP, VPNs, load balancing, firewalls, network troubleshooting, connectivity diagnostics

Monitoring, Logging & Observability: Splunk, Grafana, Prometheus, log analysis, alerting, performance monitoring

Cloud & Infrastructure: Amazon Web Services, Microsoft Azure, infrastructure provisioning, high availability, disaster recovery

Containers & Orchestration: Docker, Kubernetes, Docker Compose, containerized deployments, service orchestration

Automation & Scripting: Python, Bash, Shell scripting, Ansible, Jenkins, ServiceNow automation

CI/CD & DevOps Tooling: Jenkins, GitHub Actions, GitLab CI, Terraform, automated deployments, configuration management

Databases & Storage: MySQL, PostgreSQL, MongoDB, data backup and recovery, storage monitoring

Application & Integration Technologies: RESTful APIs, Kafka, microservices architecture, application onboarding and support

System Design & Reliability: High availability, scalability, fault tolerance, incident response, root cause analysis, operational readiness

EDUCATION

New York University, Tandon School of Engineering

Aug 2022 - May 2024

Master of Science in Computer Science

GPA: 3.9/4.0

Amrita Vishwa Vidyapeetham, School of Engineering

July 2016 - June 2020

Bachelor of Technology in Computer Science and Engineering

GPA: 8.26/10.0

ACHIEVEMENTS

- 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.