

# Aravind Polepeddi

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## PROFESSIONAL EXPERIENCE

### Viasat Inc

Carlsbad, CA

Software Engineer

July 2023 – December 2025

- Implemented automated log rotation with custom directives to improve logging reliability, maintain consistency, and reduce storage overhead.
- Expanded tool accessibility by porting a critical Blackbox analysis tool to macOS, enabling cross-platform support for core analytics workflows.
- Migrated container images to Distroless, reducing image size and eliminating unnecessary OS components, resulting in a significantly improved security posture.
- Decreased production downtime and increased system visibility by implementing comprehensive monitoring solutions using Grafana dashboards, Sensu alerts, and Splunk logging.
- Automated compute resource failover and dashboard promotion using Groovy and Python-based Jenkins jobs, streamlining recovery processes and deployment workflows.
- Implemented keyword-based log segregation using rsyslog, routing logs containing critical keywords to dedicated log files, improving log management, observability, and incident response efficiency.
- Designed and deployed a Fluent Bit pipeline for Dockerized applications, parsing container logs, filtering critical events, and forwarding them to Databus streams, enabling real-time monitoring and centralized logging.
- Performed on-call operations, including troubleshooting production issues and ensuring service reliability during high-priority incidents.
- Enhanced Helm charts with startup probes and automated pod lifecycle; integrated Harbor image registry using scheduled cron jobs for Kubernetes deployment.
- Improved CI/CD test coverage by optimizing Jenkins FAT test cases and adding automated tests to strengthen build validation and release quality.

### NCR Corporation

Hyderabad, India

Software Engineer

July 2018 – Aug 2021

- Built and optimized automated CI/CD pipelines using Jenkins and GitHub Actions, reducing deployment time by 40%; automated backups with Bash scripts.
- Strengthened security and compliance posture by implementing fine-grained SSH access controls using SSSD, LDAP.
- Documented and maintained test plans, test cases, and scripts for desktop applications using TestComplete (JavaScript).
- Developed Selenium WebDriver and Grid test scripts based on the Page Object Model (JavaScript) for web application automation.
- Programmed C/C++ middleware components for desktop applications using STL.

## TECHNICAL SKILLS

**Programming Languages:** C++, Java, Spring Boot, JSP, JavaScript, Python

**Web Technologies/Databases:** HTML, SCSS, Node.js, React, MSSQL, PostgreSQL, RESTful APIs

**DevOps/Cloud Tools:** GHA, CloudFormation, Jenkins, AWS, Kubernetes, Ansible, Terraform, Grafana, Splunk, ELK, Docker

**Testing/Automation:** TestComplete, UFT, Selenium, SoapUI, Postman, Shell Scripting

## EDUCATION

### Northeastern University

Boston, MA, USA

Master of Science in Information Systems

May 2023

### Gandhi Institute of Technology and Management

Visakhapatnam, India

Bachelor of Technology in Electronics and Communication

April 2018

## ACADEMIC PROJECTS

### To Do Application | Spring Boot, Java, AWS

2022

- Containerized and deployed a Java-based web application on AWS and Google Cloud.
- Provisioned infrastructure as code (IaC) on AWS using Ansible playbooks and Terraform.
- Streamlined application delivery by building real-time data pipelines with Kafka and automating CI/CD with Jenkins.

### User Management System | AWS, CloudFormation, Packer

2022

- Architected and deployed a secure, scalable AWS platform leveraging EC2 Auto Scaling, ALB, CodeDeploy, RDS, DynamoDB, Lambda, SNS, and S3.
- Implemented automated CI/CD, event-driven workflows, and enterprise-grade monitoring for a high-availability environment.

### TA Calendar Booking | Spring Boot, Hibernate, DAO

2022

- Developed a CRUD application using Spring MVC and Hibernate to automate logistics for university code reviews.
- Managed complex relationships between Students and TAs, improving scheduling efficiency for faculty departments.

## CERTIFICATIONS AND ACHIEVEMENTS

- Certified in Azure Fundamentals (AZ-900) and Linux Professional (LPIC-1).
- Awarded First Prize, NCR Commerce Hackathon 2019, for "Kitchen Storage Replenishment" project.