

Aravind Polepeddi

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PROFESSIONAL EXPERIENCE

Viasat Inc

Carlsbad, CA

July 2023 – December 2025

Software Engineer

- 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

July 2018 – Aug 2021

Software Engineer

- 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

May 2023

Master of Science in Information Systems

Gandhi Institute of Technology and Management

Visakhapatnam, India

April 2018

Bachelor of Technology in Electronics and Communication

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.