

Varshith S

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SUMMARY

Associate Software Engineer with 2+ years of hands-on experience in Python-driven backend automation, RESTful API development, Flask web applications, and virtualization tooling for private-cloud products. Skilled in VMware vSphere and enterprise storage systems, with practical expertise in iSCSI and NFS network storage protocols. Passionate about delivering scalable, resilient infrastructure with clean web-based interfaces and automation workflows.

SKILLS

Languages: Python, Java, Perl, HTML, CSS, JavaScript, and basic C/C++.

Database: MySQL, Microsoft SQL Server, and PostgreSQL.

OS: Linux, Windows, and UNIX.

Virtualization Tools: VMware, vSphere, VLAN, and Hypervisor.

Frameworks/Libraries: Spring Boot, ReactJS, Flask.

Tools: JIRA, FOSSA, GIT, GitHub, CI/CD, Jenkins (BuildBox), Kubernetes, AirFlow, Terraform, Bitbucket, Testrail, Confluence, Swagger, and Grafana.

WORK EXPERIENCE

Mphasis, Bengaluru

Associate Software Engineer

Aug 2023 - Present

Project: VMaaS GreenBoat and GreenLake (HPE)

Oct 2024 - Present

Description:

VMaaS is a service for the HPE GreenBoat Private Cloud offering. A platform enables auto-configuration, deployment, and validation of various resources, including bare metals, VMs, Storage, Networks, vCenter, NSX-Ts, Containers, and other VMware offerings.

Responsibilities:

- Designed and developed Python automation scripts using pyVmomi and request APIs to eliminate manual provisioning and configuration tasks, reducing manual setup time by 90% and minimizing configuration errors.
- Streamlined end-to-end deployment, configuration, migration, and validation of Linux/Unix VMs, storage systems, and network servers on bare-metal environments.
- Utilized JSON-based configuration schemas for dynamic data validation and seamless process automation.
- Developed a Flask-based web dashboard** for real-time monitoring and management of server and storage assets, featuring asset tracking, alerting, and inventory management capabilities.
- Integrated backend services to optimize asset data retrieval, updates, and alert notifications for proactive infrastructure management.
- Actively contributed to design reviews, code reviews, and ensured timely feature delivery.
- Technical interview panelist, contributing to candidate selection processes for the team.

Project: pyVmomi and SteelHead/Interceptor (Riverbed)

Aug 2023 - Sep 2024

Description:

Developed a Python-based storage backup feature (VMAB) for SteelFusion, migrating functionality from Perl and extending support for iSCSI and NFS protocols. Investigated and resolved customer defects in SteelHead/Interceptor deployments.

Responsibilities:

- Developed Python scripts using pyVmomi for automated storage backups supporting iSCSI and NFS protocols.
- Implemented functionalities like request URL building, HTTP file handling, and SOAP API response task functions in Python.

- Ensured FOSSA compliance for Python scripts to meet client security requirements.
- Enhanced Python scripts for hypervisor configuration via appliance CLI for SteelFusion enhancements.
- Built software images and deployed them on bare-metal systems using CI/CD pipelines.
- Created test plans and test cases for validating automation scripts.
- Replicated customer defects in local VLAN environments for the SteelHead/Interceptor product. Performed root cause analysis and implemented fixes.

Mphasis, Bengaluru
Full Stack Developer Intern

Apr 2023 - Jun 2023

Description:

Built a full-stack application for real-time data visualization and user interaction using Java (Spring Boot), ReactJS, PostgreSQL, and Grafana.

Responsibilities:

- Designed and developed a full-stack web application with Java, Spring Boot, and ReactJS.
- Built RESTful APIs and backend services for efficient data management using PostgreSQL.
- Implemented responsive user interfaces with ReactJS and CSS.
- Integrated Grafana dashboards for real-time data visualization.
- Presented project demos to senior management and stakeholders, highlighting its features, functionality, and successful implementation.

AWARDS AND CERTIFICATES

- [Received the 'Kudos' Award](#) from the manager at Mphasis for being a consistent high performer during Q4 2023-24.
- [Earned a second 'Kudos' Award](#) for consistent performance during Q4 2023-24.
- [Awarded the 'Laurel' Recognition](#) by the manager at Mphasis for demonstrating a Can-Do Attitude, Customer centricity, and Responsibility during Q3 2024-25.
- [AWS Cloud Practitioner](#) Essentials (AWS).
- [End-to-end automation with Playwright](#) (Udemy).

EDUCATION

B.Tech in Computer Science and Engineering
Presidency University, Bengaluru

Aug 2019 - Jun 2023