

Harsh Vardhan Kushwaha

Senior Software Engineer (Automation & Infrastructure)

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Summary

Software Engineer with 5+ years of experience in backend development and infrastructure tooling. Proven track record in optimizing SQL-based reporting engines and developing enterprise plugins for vRealize Automation. Skilled in Python, C++, and JavaScript, with a focus on API integration and system reliability.

Education

Vellore Institute of Technology

Computer Science with Spec. in Network and Security

8.6 GPA

AP • 2017-2021

Skills

- Python
- Stored Procedures
- VMware vCenter
- Replication and Recovery
- C++
- REST APIs
- XenServer
- SQL
- vRealize Automation (vRA)
- Distributed Systems

Experience

Commvault Systems Pvt. Ltd

Senior Engineer

Bengaluru

December 2020 - Present

- Engineered and optimized complex SQL Stored Procedures and collection queries for enterprise-scale metrics reports, directly influencing executive decision-making. Customised client-facing reports using JavaScript to meet bespoke customer requirements.
- Secured the delivery of critical Data Replication and Automated Disaster Recovery workflows by engineering complex failure scenarios and validating data consistency limits. Recognized with the Silver Award for technical excellence and driving the acquisition of a strategic enterprise client (Northwell Health).
- Developed and maintained workflows for the vRealize Automation (vRA) plugin, utilizing REST APIs to enable seamless Backup/Restore functionality directly from the console. Debugged and resolved critical production issues in high-stress environments, ensuring service continuity for enterprise clients.
- Contributed to the core internal Python automation library by implementing Object-Oriented design patterns and patching critical bugs, significantly enhancing framework stability and developer efficiency, reducing regression cycle time by 20%.
- Mentored junior engineers and interns, conducting code reviews and providing architectural guidance on module integration and system design.
- Led the technical stabilization for Service Pack 38, enforcing rigorous quality gates and coordinating across development teams to resolve blocking defects prior to release.
- Diagnosed complex production defects in customer environment, reducing support ticket escalation by root-cause analysis and code fixes.
- Administered mission-critical virtualization infrastructure for the Virtual Server team, ensuring 99.9% uptime for automation pipelines by managing pre-production code deployments and minimizing environment-related downtime.

Construction Specialties'

Intern - Network Infrastructure

Hyderabad

May 2019 - June 2019

- Designed and simulated enterprise network topologies using Cisco Packet Tracer, optimizing static IP configurations for improved network efficiency.
- Analyzed existing network infrastructure to identify bottlenecks and implemented reliability improvements.

Shree Cement Ltd.

Software Engineering Intern

Beawar, Rajasthan

April 2018 - June 2018

- Developed an Android application for internal corporate communications and video distribution.
- Wrote complex SQL queries to generate business operation reports, supporting data-driven decision-making for internal stakeholders.

Certifications

Microsoft Certified: Azure Fundamentals (AZ-900)

Profiles

[LinkedIn](#)
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