



# SAMBASIVA RAO MADAMANCHI

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## PROFESSIONAL SUMMARY

- 10+ years of hands-on experience in Unix/Linux system administration across Red Hat, Solaris, AIX, and hybrid infrastructures.
- Expertise in installation, configuration, system performance tuning, and automation using shell scripting, Puppet, Ansible.
- Specialized in large-scale enterprise environments, security compliance, clustering, backup solutions (TSM, Commvault), and disaster recovery.
- Deep knowledge in tools like Nagios, Zabbix, Tivoli, Tripwire, and Veritas Cluster Server.

## EDUCATION

- Masters in Computer Science, University of Illinois at Springfield (UIS), 2016
- Bachelors in Computer Science, Nagpur University, 2012

## PROFESSIONAL EXPERIENCE

- Dept of Veterans Affairs, Austin, TX
- Unix/Linux Systems Administrator | Aug 2023 – Present.
- Migrated 150+ servers from physical Solaris to AWS-based Linux VMs.
- Built and patched Oracle Linux & Red Hat servers, automated patching via CRON/Satellite.
- Supported Exadata compute/cell nodes, live LDOM migrations, volume/disk management, ZFS, and Commvault backup integration.
- National Institutes of Health, Bethesda, MD
- Unix/Linux Administrator | Dec 2019 – Jul 2023
- Maintained 300+ Sun servers; implemented Zones/Containers, created puppet modules, handled patching, monitoring (Nagios), and compliance using Tripwire.
- Migrated legacy systems, implemented kernel tuning, managed NFS/SMF.
- Denken Solutions Inc, Irvine, CA
- Unix/Linux Administrator | Apr 2017 – Dec 2019

- Built Jumpstart/Kickstart servers, handled LVM, RAID, tape backups (LTO4), and automated reporting.
- Maintained M9000 Sun servers, Hitachi SANs, EASY Spooler print servers, and performed OS upgrades/patches.

## TECHNICAL SKILLS

- Operating Systems: RHEL 5–8, Solaris 10/11, AIX 6.1, HP-UX, VMware ESX, Windows
- Tools: Puppet, Chef, Satellite Server, OEM, Kickstart, SMF
- Languages: Shell, awk, Perl, Python
- Servers: Sun Fire, HP Integrity, IBM pSeries
- Storage: SAN (EMC, Hitachi), NAS, ZFS, LVM, Veritas
- Backup: TSM, Commvault, SL500, Veritas
- Monitoring: Nagios, Zabbix, Splunk, EM7
- Cluster: Veritas Cluster, Sun Cluster, MC/ServiceGuard
- Security: SSH, SSL, iptables, Centrifify, Tripwire

## PUBLICATIONS

- Madamanchi, S. R. (2019). A performance benchmarking model for migrating legacy Solaris zones to AWS-based Linux VM architectures. *International Journal of Creative Research Thoughts (IJCRT)*, 7(3), 462–470.
- Madamanchi, S. R. (2019). Veritas Volume Manager deep dive: Ensuring data integrity and resilience. *International Journal of Scientific Development and Research*, 4(7), 472–484.
- Madamanchi, S. R. (2019). Administering hybrid UNIX systems: From Solaris to AIX and RHEL.
- Madamanchi, S. R. (2020). Security and compliance for UNIX systems: Practical defense in federal environments.
- Madamanchi, S. R. (2021). Disaster recovery planning for hybrid Solaris and Linux infrastructures. *International Journal of Scientific Research & Engineering Trends*, 7(6), 1–8.
- Madamanchi, S. R. (2021). Linux server monitoring and uptime optimization in healthcare IT: Review of Nagios, Zabbix, and custom scripts. *International Journal of Science, Engineering and Technology*, 9(6), 1–8.
- Madamanchi, S. R. (2021). Mastering enterprise Unix/Linux systems: Architecture, automation, and migration for modern IT infrastructures.
- Madamanchi, S. R. (2022). The rise of AI-first CRM: Salesforce, copilots, and cognitive automation.
- Madamanchi, S. R. (2023). Efficient UNIX system management through custom shell, AWK, and sed scripting. *International Journal of Scientific Development and Research*, 8(9), 1295–1314.
- Madamanchi, S. R. (2024). Unix systems blueprint: Strategies for modern infrastructure mastery.

- Madamanchi, S. R. (2024). Evaluating Solaris and Red Hat Linux for mission-critical enterprise environments. International Journal of Novel Trends and Innovation, 2(11), a107–a122.
- Madamanchi, S. R. (2025). Modern approaches to UNIX automation: Shell scripting, configuration management, and security. International Journal for Research in Applied Science & Engineering.
- Madamanchi, S. R. (2025). Real-time anomaly detection with AI-driven syslog monitoring for bioinformatics reliability. International Journal of Innovations in Science Engineering and Management, 4.
- Madamanchi, S. R. (2025). AI-powered novel BioAgeSense device for age profiling using saliva. International Journal of Science and Research (IJSR), 14(6), 1596–1605.

## **PATENTS**

- Madamanchi, S. R. (Filed). System and Method for Optimized Monitoring and Management of UNIX/Linux Healthcare Infrastructure.
- US Application No. 465466-001; UK Application No. 6457718.

**THE ABOVE INFORMATION IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND UNDERSTANDING**

**- SAMBASIVA RAO MADAMANCHI**