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**Senior Platform & Systems Architect** with 30 years of experience across infrastructure automation, R&D, and distributed systems in regulated environments. Expert in observability, compliance, and transforming inconsistent infrastructure into reliable, deterministic platforms. Recently rebuilt a non-idempotent Ansible environment into a scalable automation framework for a 130-node FedRAMP estate. Now focused on AI agent evaluation, workflow governance, and the secure integration of autonomous systems.

## WORK EXPERIENCE

**Ansys, Exton, PA** **2023 – 2026**

Systems Engineer – Linux Platform Automation

Rebuilt a non-idempotent Ansible environment after extensive investigation of inconsistent server state behavior, creating reliable automation across a 130-server inventory spanning production, staging, and high-security FedRAMP environments with physical and virtual RHEL 7–9 systems.

- ◆ Automated the full server lifecycle from VM provisioning through production-ready hardening, including RHEL 7–9 upgrade pipelines, Satellite registration, AD/SSSD integration, Duo MFA, Trellix, Artifactory, Prometheus, and NVIDIA driver deployment, improving consistency and reducing manual effort.
- ◆ Responded to a security incident requiring organization-wide credential rotation and elimination of legacy accounts by contributing to a transition toward role-based access controls, strengthening security posture under time-sensitive conditions.
- ◆ Contributed to CMMC certification preparation through documentation enhancements and implementation of compliance-related controls across the platform environment.  
Environment: RHEL 7-9, Ansible 2.16+, VMware vSphere 7.x/8.x (vCenter, DRS, vMotion), GitLab, GitHub, GitLab CI, Graylog, Prometheus, Grafana, JFrog Artifactory, Red Hat Satellite 6.18, bash, perl 5.32, PowerShell, Trellix (formerly McAfee) Endpoint Security, Jira

**Investnet, Berwyn, PA** **2018 – 2023**

Senior Platform Engineer 2022 – 2023

Senior Systems Engineer 2018 – 2022

Hired for DevOps as part of the Architecture Modernization Program by this national fintech company in high-acquisition mode. Broke down technical barriers to apply uniform code standards for consistent data accuracy for Portfolio Management Consultants. Led technical decision-making for Linux OS. Liaised to senior leadership on infrastructure, server, data, design, and best practices. Served on various teams and projects as needed, including ERS, AWS UMP, Folio, and SRE.

- ◆ Shortened development cycle by ~6 months and coded to pass internal security audit from the start by mentoring, overseeing, and advising junior programmer on analysis, design, and methodology.
- ◆ Went beyond scope of providing server and, allocating minimal compute resources, contributed self-service features that allow analysis of large amounts of financial data without IT assistance.
- ◆ New offshore Folio support team completed tasks 25% faster due to proactive ongoing liaising and training on self-service, fully populated Confluence wiki using Rest API.
- ◆ After extensive environmental investigation, wrote game-changing, loosely coupled code to build new infrastructure, which eliminated single points of failure and technical debt while enabling seamless scaling

- ◆ From minimal sample code, learned what was needed about how to use AWS CloudFormation to secure Windows with a security group by scouring AWS CloudTrail Logs.
- ◆ Resolved outages and permission problems by re-deploying shared subsystem using best practices with role-based access controls, and readied product for re-architecting with documentation.
- ◆ Researched and corrected software build process failures using Gitlab CI/CD logs, which occurred 50% of the time and without error messages, and thus preventing schedule delays.
- ◆ With persistence over a year, documented entire platform architecture, including code and processes, plus a complete server inventory in the platform environment, returning 30% of compute resources.

Environment: RHEL 6-8, vSphere 6.7, gitlab, ansible 2.9, Red Hat Satellite 6.7, AWS cli, AWS CloudFormation, AWS CloudTrail, boto3, python, bash, perl 5.8, PowerShell Core 6, apache, MySQL 5.7, Nagios XI, GlassFish Server 3/5, Trend Micro, CrowdStrike Falcon sensor, Dell EMC Isilon, New Relic One, Cohesity DataProtect, Confluence, Jira, GitLab Runner, GitLab CI/CD

**Aramark, Philadelphia, PA**

**2012 – 2018**

Senior Technical Analyst / Linux Systems Administration

Improved communication between database, storage, Linux, and Windows administrators. Transitioned Unix staff to Linux. Customized and integrated Xymon open source tools for hardware monitoring. Created and implemented standards for building physical and virtual Redhat Linux Servers. Automated Linux server builds through Redhat Satellite. Designed and documented Disaster Recovery Procedures for the Linux infrastructure. Lobbied to become a member of the first DevOps team at Aramark.

- ◆ As Linux expert on DevOps proof of concept team, used Pivotal, Cloud Foundry, and Azure to build and deploy [custom app](#) that streamlined and standardized food-service operations across locations.
- ◆ Persuaded director, consultant, and team members to value insights from cross-functional/cross-technical experience and accept offer to liaise, automate, and document for new DevOps initiatives.
- ◆ Improved accuracy and ease of Linux incident reporting by 80% through implementation and customization of open source Xymon Monitoring system.
- ◆ Traveled to Yosemite National Park to assist with record-breaking overnight switch from previous vendor to Aramark IT without the availability of network schematics.
- ◆ Uniformly set up each node and offered multipath expertise to support DBAs in Oracle RAC cluster migration, which increased availability, redundancy, and resilience of databases.
- ◆ Identified and automated frequently required maintenance tasks for reliable and accurate maintenance of RHEL servers through comprehensive system-wide evaluations of each error.
- ◆ Wrote utilities for proactive resolution, such as one to accurately predict, find, and elegantly kill the process that used huge amounts of previously untraceable disk space.
- ◆ Wrote custom cgi perl code to allow safe access to SOX protected data on production servers.
- ◆ When air conditioning failure brought awareness to lack of hardware monitoring systems, built one by integrating existing open source code with hardware and Xymon, increasing stability and uptime.

Environment: Redhat Satellite Server, Cloud Foundry, Pivotal, Azure, Big Brother, Xymon, 20 HPUX servers, 180+ servers running RHEL, vSphere, PerfMan, Azure, Foswiki, perl, ksh, bash, postfix, apache

**CTDI, West Chester, PA**

**2004 – 2012**

Unix System Administrator

Reported to Operations Manager at the world headquarters of this global engineering, repair and logistics company with more than 14,000 employees in over 90 facilities worldwide. Redesigned the backup infrastructure. Interfaced heavily with helpdesk, support staff, DBAs and IT teams.

- ◆ Instituted new web-based user request process in partnership with users that improved completion time by 80%.

- ◆ Reduced backup monitoring and administration time from hours to minutes with design of reporting and monitoring tools and redesign of backup infrastructure to eliminate all throughput issues.
- ◆ Enhanced the Big Brother monitoring tool with custom scripts, which allowed for proactive dealing with issues in order to maximize warehouse productivity.
- ◆ Improved server availability and reduced server-related incidents from weekly to rarely by identifying slow growing issues and writing various hourly, nightly, and weekly clean up scripts.
- ◆ Set up a wiki for in-house collaboration between Unix and Database teams, which improved the first-call resolution rate by 40%.

Environment: HPUX, AIX, Fedora Core, Red Hat Linux, Red Hat Enterprise Linux Server, Oracle Unbreakable, Data Protector, Foswiki, iptables, perl, ksh, bash, postfix, apache, CGI, DNS, MySQL, Solaris

**Change-IT Corporation, Paoli, PA** **2000 – 2004**  
Lead Consultant

Worked corp-to-corp for various clients on long-term consulting assignments. Engaged as Unix System Administrator at **GSI Commerce**, improving server performance by ~20%, and accelerating development by ~1-2 hours per day. As Technical Web Lead at **Trustmark National Bank**, negotiated new processes and procedures while training users during migration from outsourced to in-house website. At **Illinois Credit Union League** as Lead Developer, improved data error detection by 75%.

**CoreTech Consulting, King of Prussia, PA** **1996 – 1999**  
Unix System Administrator

Clients included Campbell Soup, William Scotsman, SunGard Corbel, and Janssen Pharmaceutical.  
Environments: ksh, perl, HP-UX, EMC, TCP/IP, Maestro, Omniback, Oracle, HP Openview, Volume Manager, Solaris, Ensign, AIX, C, Cops, Crack, Autosys, JobScheduler

## EDUCATION, CERTIFICATION AND TRAINING

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**Nelson Mandela University, Port Elizabeth, South Africa** **1988**  
Bachelor of Science, Computer Science and Mathematical Statistics

**Amazon Web Services** **2020**  
AWS Certified Cloud Practitioner

**Pluralsight** **2022**  
Architecting for Reliability on AWS 2h44

## TECHNICAL SKILLS

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**OS / Platforms / Hardware:** RHEL 7–9, vSphere 7.x/8.x, AWS, Azure, Ubuntu, Cloud Foundry

**Applications / Software / Languages:** Ansible 2.16+, Red Hat Satellite 6.18, JFrog Artifactory, Prometheus, Grafana, Graylog, Trellix, Duo MFA, AWS CLI, AWS CloudFormation, AWS CloudTrail, GitLab CI/CD, bash, PowerShell, Python, Perl, boto3, CrowdStrike Falcon, New Relic One, Cohesity, Nagios XI, Jira, Confluence, apache, multipath, TCP/IP, diagrams.net

**Methodologies / Approaches / Standards:** Infrastructure as Code (IaC), DevOps, Site Reliability Engineering (SRE), FedRAMP, CMMC, Agile