




FRANK

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SKILLS

Non-Technical Skills:

DevOps Manager
Senior Software Test Engineer
Principal QA Engineer
Systems Tester
Product Integration Specialist
Verification Engineer
R&D Infrastructure Manager
Software Quality Assurance Manager
Integration and Test Lead
Performance Test Engineer
Automation Architect
Network Security Specialist
SIP/VoIP Integration Engineer
Systems Design Manager
Technology Project Manager
Test Automation Engineer
Technical Operations Manager
IT Infrastructure Leader
Data Pipeline Test Lead
Software Development Engineer in Test (SDET)

PROFESSIONAL SUMMARY

An accomplished Tech innovation catalyst and R&D Infrastructure Manager, renowned for revolutionizing team methodologies to adopt DevOps and Agile approaches. Engineered a notable 30% surge in project efficiency by implementing pioneering automation architectures using RESTful APIs. Proficient in mentoring teams through precision-driven strategies utilizing Ansible playbooks, strengthening security with CIS o/s automation, and orchestrating substantial cost efficiencies through adept vendor negotiations. Seasoned in Senior Software Testing, Principal QA Engineering, and Systems Testing, showcasing expertise in leading transformative Hadoop integrations, excelling in performance benchmarks, and ensuring compliance in enterprise-level SIP/VoIP integrations. Grounded in SS7 Software Design & Development, focused on steering pivotal advancements in cutting-edge tech domains.

WORK HISTORY

Comtech TeleCommunication Corporation, Inc. - Staff Software Engineer

Seattle • 08/2024 - Current

- Led designer for ingress services in Azure deployment utilizing ARM templates and ADO

Comtech TeleCommunication Corporation, Inc. - Senior Splunk Engineer

Seattle • 08/2024 - Current

- Developed multiple dashboards for internal and external customers
- Maintained operational readiness of production clusters

Comtech TeleCommunication Corporation, Inc. - MANAGER - R&D INFRASTRUCTURE

Seattle • 05/2018 - Current

- Led team transition to DevOps and Agile methods, fostering innovation and collaboration.
- Designed RESTful API-driven automation, cutting project times by 30%, boosting overall efficiency.
- Mentored the team in crafting advanced Ansible playbooks for stable server configurations, ensuring version control and system stability.
- Automated CIS OS hardening, fortifying security and mitigating vulnerabilities.
Optimized expenses via strategic vendor negotiations, securing cost-effective long-term contracts, and enhancing resource allocation.

Technical Skills:

Automation
Systems Design
Capacity Planning
Budget Planning
Change Management
Problem Solving
Collaboration
Team building
Agile
RESTful Architectures
Python
Java
Bash
Ansible
Load Balancing
Networking
Firewalls
Linux
Telecommunications
SIP/VoIP

EDUCATION

University of Waterloo
Waterloo, ON, Canada

Bachelor of Mathematics

CONTINUING EDUCATION

University of Waterloo:

- *Certificate of Data Science - in-progress ETA Dec, 2024*
- *Certificate of Project Management - Aug 2024*

CompTIA Security+ - July 2024

Google CyberSecurity - May 2024

MIT Sloan:

- *Machine Learning; Implementation in Business - Oct 2019*
- *Internet of Things: Business Implications and Opportunities - June 2019*
- *Artificial Intelligence: Implications for Business Strategy - April 2018*

Comtech TeleCommunication Corporation, Inc. - SENIOR SOFTWARE TEST ENGINEER

Seattle, WA • 07/2017 - 05/2018

- Executed diverse performance test benchmarks, enhancing system reliability under varied conditions, leading to a 20% improvement in performance metrics.
- Introduced an advanced Python-based reporting framework automating comprehensive performance metric reports, streamlining analysis and bolstering data-driven decision-making.

ACCOMPLISHMENTS

Projects at Comtech Telecommunications:

Transformed project timelines from days to minutes using a REST API model, leveraging VMware pyvmomi libraries. Result: Achieved a substantial time reduction in completion cycles.

Engineered a JSON-based representation of virtual machines, optimizing management and reporting capabilities through database integration.

Spearheaded a Proof of Concept demonstration showcasing a robust CI/CD model for application build, test, and deployment, enhancing development agility and efficiency.

Projects at Nuance Communications:

Optimized extensive big data systems, constructing a comprehensive model of data pipeline workflows. Utilized basic data analysis and linear regression modeling to highlight essential relationships and enhance system efficiency.

Led the comprehensive testing transition from an Oracle distributed database to a Cassandra distributed cluster. Analyzed RAM utilization and disk I/O performance against varied traffic workflows, achieving optimized system performance.

Employed Python-based custom MapReduce jobs on Hadoop to analyze extensive datasets, pinpointing root causes of load test phase issues, ensuring robustness and reliability.

Crafted and implemented the NCS Cloud Test Strategy, optimizing quality assurance processes and ensuring rigorous testing standards for cloud-based solutions.

Projects at BlackBerry / Research In Motion:

Pioneered testing efforts for the Mobile Voice System (MVS), facilitating enterprise PBX vendor abstraction, enabling seamless mobile extensions. This innovation significantly enhanced communication efficiency.

Successfully integrated BlackBerry's Mobile Voice Solution with Coke's network for the Beijing and Vancouver Olympics, leading to substantial telecommunications cost reductions and fortified security measures for Coke's operations.