Robert Church

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For more information including samples of work, please visit my website
www.robertchurch.us

Degree:	B.S. Data Science - University of North Texas
	A.A. - Tarrant County College
Certifications:	Redhat Certified Systems Administrator
	Splunk Certified Administrator
Operating Systems:	Centos, Redhat, Debian, Suse, Ubuntu, Fedora, FreeBSD, OpenBSD

PROFESSIONAL EXPERIENCE

Raytheon - Manager Cyber Defense   **April 2020 - Current**

- Developed strategy for managing Splunk utilizing Ansible Role based playbooks
- Integrated multiple API based systems together with Perl and Python
- Automated multiple Request Tracker (RT) workflow saving hundred of man hours
- Managed 90+ server deployment utilizing Multisite replication in multiple datacenters
- Developed dozens of high quality Ansible Playbooks for automating complex operations
- Managed all aspects of highly customized Enterprise Security environment
- Imported data from multiple API based frameworks into Splunk
- Developed dozens of high quality dashboards focusing on current needs
- Developed strategy for importing syslog data to Splunk via syslog-ng
- Data collection and Forwarder Management, creating and managing Splunk apps
- Created apps, dashboards, and data-models to fit business requirements
- Perform field extractions, using rex command and regex in configuration files

KPMG - Sr Associate Architecture and Engineering   November 2018 - April 2020

Sr Data Architect

- Designed report saving company between 250k and 500k in server licensing costs
- Integrated Servicenow CMDB and Request data with Splunk utilizing inputlookups
- Designing and implementing Splunk-based best practice solutions
- Articulated and conveyed advanced technical concepts related to designing and developing processes utilizing Splunk best practices
- Captured, analyzed, and monitored front end application logs
- Develop data extraction tools utilizing Python, Bash, and Powershell
- Provide regular support guidance on complex incidents requiring data in Splunk
- Data collection from various systems/servers, Forwarder Management, creating and managing Splunk apps
- Created apps, dashboards, and data-models to fit business requirements
- Perform field extractions, using rex command and regex in configuration files

Sr Splunk Architect

- Sr Splunk Architect responsible for the design, performance, implementation and capacity of the Splunk multisite platform
- Provided Senior support for system admins, content manager and developers to ensure the delivery of data while utilizing best practices
- Develop and implement software release management strategy for Splunk utilizing Jenkins/Bitbucket/Ansible
- Optimized deployments from 4 hours to 28 minutes saving > 900 man hours/year
- Migrated Enterprise Security from shared cluster to dedicated cluster
- Engineered rsyslog solution utilizing CRIBL, syslog-ng, for > 5M transactions a day
- Create retention policies, perform administration, maintenance and optimization
- Manage all aspects of Redhat 6/7 servers running Splunk Enterprise services
- Provide security consulting to project and development teams
- Identify KPI and develop dashboards with visual metrics for stakeholders

Charles Schwab - Sr Splunk Engineer   **July 2018 - November 2018**
- Develop and implement software release management strategy for Splunk utilizing JIRA/Bitbucket/Bamboo
- Develop and implement migration strategy from Standalone SH to Clustered SH
- Develop Python scripts to automate the remediation of 700+ Splunk Apps
- Standardize Splunk server configurations for 6.x and 7.x
- Develop Python and Bash scripts for backend Splunk and Linux administration
- Optimize data ingestion with a goal of complete CIM compliance
- Assist with the design and implementation of a 200+ Splunk server expansion
- Perform Hot/Cold/Frozen capacity planning for 2 Petabyte storage expansion
- Standardize Universal Forwarder and Heavy Forwarder configurations
- Onboard new log sources with log analysis and parsing to facilitate correlation
- Create dashboards for IT Operations, and Service owners used to monitor application and device health

KPMG - Sr Associate Linux Systems Administrator   **June 2016 - July 2018**
- Produced multiple python API utilities to support and expand product capabilities
- Produced API driven utility to automate DNS insertion / removal from Infoblox
- Produced API driven utility to deploy and manage AWS resources
- Maintained hundreds of records for internal applications
- Engineered strategy utilizing Redhat Satellite with custom kickstart scripts
- Designed highly redundant web solutions supporting 35,000 connections/min
- Support 1300+ Linux servers in a multi platform environment
- Designed multi-node Redhat IPA solution with replication supporting > 1000 users
- Created multiple Splunk reports and Dashboards parsing billions of records
- Manage all aspects of RSA Netwitness Log and Packet SIEM appliance
- Utilize Ansible and Salt-Stack for task automation and configuration management
- Identify and mitigate conditions using custom written Python and Bash scripts
- Serve as an organization point of escalation for all Linux based problems

Fiserv - Sr Platform Engineer   **05-2015 - 06-2016**
- Lead engineer for PCI upgrade project for deploying and securing hundreds of Redhat 6 servers and migrating services from legacy Redhat 5/4/3 servers.
- Provided technical oversight for POC Security lab utilizing SELINUX and Firewalld
- Architected virtual IBM MQ server solution utilizing VMWARE and Redhat
- Architected Redhat IDM solution utilizing Dirsrv 389 facilitating authentication for 25K+ users. Migrated 25K+ users using custom Python script from Solaris based LDAP service to Redhat IDM 389 LDAP service.
- Architected geographically distributed DR environments on multiple projects for mission-critical corporate applications.
- Architected global NTP solution consisting of Stratum 1 devices spanning multiple Datacenter's servicing 10k+ devices
- Provided technical oversight for Redhat Satellite 6 cluster with 20 plus capsules spanning multiple datacenters and multiple tiers
- Wrote and executed HPSA software policies for automating 10k+ devices

Rackspace - Lead Systems Engineer   08-2014 - 04-2015
- Architected and maintained existing environments utilizing RHEL/Centos/Ubuntu within vmware, hyper-v, openstack, or on non virtualized dedicated equipment
- Wrote custom utilities using Bash and Python for auditing very large environments
- Engineered and deployed Redhat clustered services for fortune 500 customer
- Designed and implemented hybrid cloud solutions utilizing racked and scaling resources encompassing all of Rackspace cloud offerings
- Partnered with customers to identify unknown challenges, capacity planning, perform preventative maintenance, and security audits
- Aggregated customer device alerts and wrote predictive failure models
- Maintained PCI compliance through routine scans and compliance audits

Amazon Web Services - AWS Cloud Engineer   03-2014 - 08-2014
- Replicated and resolved customer issues leveraging every AWS product available
- Leveraged day-to-day customer experiences providing voice to internal AWS teams
- Created tutorials, how-to videos, and technical articles for the AWS customers
- Worked on critical and highly complex customer problems that span multiple services

FIREHOST - Sr Support Engineer   07-2013 - 03-2014
- Engineer and Maintain global DNS solutions utilizing GTM
- Produced multiple bash utilities for automating deployment and product support
- Proactively monitor services and load for 3000+ customer environments
- Design and deploy custom LAMP hosting platforms based on provided specifications
- Engineer and Performance Tune MySQL platforms with replication
- Manage VM snapshots/migrations/restores/creation in VMWARE

Media News Group - Linux Engineer   06-2010 - 05-2013
- Architected Gluster NAS environment replication 8+ terabytes
- Architected centralized logging solution utilizing LEM, syslog-ng, and splunk storm
- Architected highly redundant Amazon environments spanning multiple regions
- Engineered and maintained hosting environments using RHEL/Centos/Ubuntu
- Engineered A10 configurations utilizing aFlex scripts w/ SSL Termination
- Engineered automation scripts for configuring and deploying Wordpress environments
- Engineered hosting solutions utilizing Apache, Nginx, F5 GTM/LTM, and Centos
- Engineered monitoring platform using Nagios/Cacti, 500+ devices, 50+ probes
- Engineered monitoring solution using Cactii and Nagios/Centreon for 5k+ devices
- Engineered custom PXE environment
- Maintained clustered JBOSS/Tomcat application environment behind F5 LTM
- Maintained PCI compliance utilizing OSSEC and Metasploit security scans
- Performed routine regression testing and coordinated findings with development
- Performed Datacenter operations for 50+ devices at SAS 70 compliant facility
- Performed asset recovery and consolidation operations
- Developed power distribution algorithms to ensure 80% rule at Datacenter
- Dismantled Lethic Botnet (Responsible for 500+ Million spam emails a day)
- Dismantled Torpig Botnet (Responsible for massive credit card fraud)
- Discovered and Dismantled botnet nodes aggregating infected enduser machines

Recommendations

Jered Sutton - Associate Director   **KPMG (2019)**

I worked with Robert Church as a supervisor and in that time he demonstrated an incredible willingness to take responsibility for systems and processes. He routinely went above and beyond expectations displaying a desire to continuously improve what he had taken responsibility for. His technical acumen is excellent and he is not inclined to exaggerate his abilities. If he says that he knows something, he does. I thoroughly enjoyed my time working with Robert, and given the opportunity, I would do so again.

Melissa Duncan - Enterprise Security Team Lead   **Charles Schwab (2018)**

It was an absolute pleasure working with Robert to help integrate disparate data sources with Splunk. When my team migrated our SIEM and needed to onboard all the data sources and normalize I knew I could count on Robert to quickly take the ticket and work with his team to ensure the data was in as expected. I had the pleasure of attending Splunk .conf with Robert and was impressed by not only his deep knowledge of Splunk but his knowledge of Linux administration and programming. When faced with a difficult problem he is able to consider all the moving parts and quickly implement solid sustainable solutions.

Brian Collins - Linux Security Architect   **Private Consultant (2017)**

Robert is an amazing wealth of knowledge and an uncanny automator. Using his years of talent Robert has mentored, taught and guided technical staff of all skill levels with impressive knowledge in TCP/IP and the OSI model, Unix and Linux of too many to list, windows, DNS,LDAP and so much more. If you can name it he has supported, implemented, architected and secured it or known someone who has. I would recommend Robert in any situation.

Tony Ramos - Enterprise Account Manager   **Rackspace (2015)**

"Robert and I worked together directly on various accounts and numerous tasks to much success. His technical skill was on display daily and he received positive praise for the situations he was able to work through on the accounts we shared. He offered help to his peers freely and enjoyed learning from them as well. I'm thankful for the relationship we have been able to keep after our time working together."

Kyle Chrisman - AWS Cloud Engineer   **Amazon (2015)**

"Had the pleasure of meeting Robert while working at Amazon. He's a very skillful and charismatic person that brings a lot wisdom and context into every problem he solves. If his talent was a hammer, even Thor couldn't lift it. I'd be honored to work with him again any time, anywhere, on anything."

Michael Lance Carter - Security Incident Manager   **Firehost (2014)**

"Robert's dedication and passion for his work were unmatched during my time with him at Armor. He was a true Hero and advocate of the customer no matter how difficult the event he was faced with."

Recommendations

Andrew Missel - Sr Linux Support Engineer   **Firehost (2014)**
"Robert is an extremely knowledgeable and skilled engineer. He has an excellent mind for troubleshooting and I would definitely recommend him for any team looking for someone with solid systems administration skills."

Blake Moore - Linux Support Engineer   **Firehost (2013)**
"Robert is a knowledgeable and focused worker, experienced in providing original and straightforward solutions for complex problems. Robert maintains a keen interest in his work and learns new skills and technologies quickly."

Jeff Boring - Scrum Master   **Media News Group (2013)**
"I worked with Robert for 2 years and he was instrumental in helping my digital content / website revenue team build out our DevOps processes. This reduced our time to market in hours vs weeks. Robert is very passionate about his work and I have always been able to rely on his word."

Bill Holshue - Web Application Developer   **Media News Group (2013)**
"I worked with Robert Church at Media News Group. He is one of the best Unix/Linux Engineers I have ever met. I have worked with Linux for many years myself and I have never seen anyone who can find solutions faster in a Unix/Linux environment. He is a true super star in his field."

Jacob Margolis - Director of Information Technology   **Catholic Charities (2012)**
"I have worked with Robert at several companies and have always found that he is meticulous in nature and has very high standards of service. I think that he would be an asset to any company fortunate enough to retain his services."