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Summary

US Citizen.

Skilled software engineer with a focus on systems architecture, development, and administration. Excellent communication skills.

Always staying apprised and up to date with the latest trends in software technologies and excited about implementing new and cost effective ways to help adapt and grow a business.

Specialties:

- Public/Private cloud computing design and implementation.
- Continuous integration and deployment.
- Configuration management and infrastructure automation.
- Linux systems administration with production environment support.
- Agile software development.

Experience



Sr. Principal Architect, Reliability Engineering

Comcast

Aug 2019 - Present (2 years 7 months +)

At Comcast, I lead the design and implementation of a self-service CI/CD platform which enables development teams in our organization to deploy applications onto various private and public cloud platforms. Through this approach we are able to provide our organization a tangible DevOps model, with usable processes and tooling allowing teams to truly achieve consistent and repeatable deployments of their services from development to production.

- Lead the architecture and implementation of SEED, our self-service CI/CD platform for deploying into AWS ECS, Lambda and Kinesis Analytics, ServiceNow, MuleSoft, Databricks, Kubernetes, Artifactory, and more.
- Design integrations for our CI/CD platform into shared services to enable development teams to quickly leverage business approved processes - Logging, Monitoring, Change and Incident Management (via ServiceNow), Security Scanning, Embargo Enforcement.
- Design of our infrastructure-as-code model for supporting the deployment of infrastructure alongside application deployments (via Terraform).
- Design and management of multiple public and private cloud accounts and environments to enable safe development, testing and promotions to production.
- Design of organizational logging strategy for business applications deployed across our public and private cloud environments feeding into a central ElasticSearch environment.
- Mentoring junior staff.
- Ensuring we operate as an effective Agile team.

- Documenting team working agreements and processes.
- Documenting architectural decisions with ADRs.
- Participating in team and organizational knowledge sharing exercises.
- Member of Comcast's Cloud Ambassador program.
- Member of Comcast's Terraform Guild.
- Founding member of our organizational Observability Guild.

Technologies Used:

- Amazon AWS
- Microsoft Azure
- Vagrant, Packer, Terraform, Docker, Jenkins Pipeline, Artifactory, Vault, SonarQube, ECR, Snyk, ServiceNow, ElasticSearch, FileBeat/Functionbeat, Vector, JIRA.

Chief Cloud Architect

Strong Horse Consulting

Aug 2017 - Dec 2020 (3 years 5 months)

IT consulting, specializing in cloud computing (AWS, GCP, OCI), dev/ops, Linux system administration, and Google G-Suite.

Sr. Cloud Engineer

AIG

Jan 2019 - Aug 2019 (8 months)

At AIG (as part of the Cloud Engineering team), I helped design, implement and manage tooling and processes for the governance of AIG's AWS accounts (100+):

- Multi-account management and governance via IAM, Organizations, SCP strategy (CloudCore).
- Multi-account AMI configuration and management (AMI Builder).
- Multi-account monitoring via Lambda/SNS to a central management account (STORM)
- Multi-account Marketplace and Service Catalog management.
- Mentoring junior staff.
- Participating in team and organizational knowledge sharing exercises.

Technologies Used:

- Amazon AWS (VPC, EC2, AMI, S3, ELB, Lambda, Trusted Advisor, IAM, SCP, Organizations, Config, CloudWatch, CloudTrail, CLI)
- Vagrant, Packer, Terraform, Docker, Jenkins

Sr. Manager/Cloud Architect

VMware Carbon Black

Feb 2018 - Jan 2019 (1 year)

At Carbon Black, I managed and led an infrastructure engineering team providing shared infrastructure services to the organization's development teams in order to facilitate faster delivery of services to production.

Spearheaded the design of Mosaic, our opinionated infrastructure framework for containerized micro-services deployment on top of AWS EKS.

Technologies Used:

- Amazon AWS (VPC, EC2, AMI, S3, IAM, ELB, Trusted Advisor, AWS CLI)
- Vagrant, Packer, Terraform, Docker, Kubernetes/EKS, Helm, InfluxData TICK Stack, ElasticSearch, Grafana, Kibana, Jenkins



Sr. Manager/Cloud Architect

Oracle | Datalogix

Feb 2016 - Feb 2018 (2 years 1 month)

At Oracle Data Cloud (ODC), I led the design and implementation of our internal multi-cloud (AWS & OCI) infrastructure services platform named Rampart.

Rampart was a fully managed infrastructure platform and provided our users (development and operations teams) reduced cloud costs and complexity with increased infrastructure agility and reliability. Rampart included a system provisioning, configuration management, metrics, logging, containerization, and infrastructure analytics solution.

In addition to providing managed infrastructure services with Rampart, my team and I successfully migrated over two dozen ODC development teams to full containerized deployments in the cloud. We helped many of these teams re-architect their applications to be cloud native and adhere to twelve factor application methodologies. Finally, we provided a means for business leadership to see that a true digital transformation had taken place in the organization by providing realtime graphs and metrics of ODC services running in containers on top of Rampart services.

While leading the design and implementation of Rampart, I also managed my team by adhering to the following principles that I deeply believe are the hallmark of a successful technical leader:

- Providing the team with a clear charter and vision of the work ahead.
- Serving my team's needs by unblocking them and empowering them to do great work.
- Managing by rolling up my sleeves and writing software alongside my team.
- Setting high standards for my team in order to push the envelope of innovation.
- Building each team member into a leader and ultimately building a self-managing team.

Technologies Used:

- Amazon AWS (VPC, EC2, AMI, S3, IAM, ELB, Trusted Advisor, AWS CLI)
- Oracle Cloud Infrastructure Services
- Puppet, Vagrant, Packer, Terraform, Docker, Mesos, Marathon, Kubernetes, InfluxData TICK Stack, ElasticSearch, Grafana, Kibana



Sr. Infrastructure Engineer

JumpCloud

Jul 2015 - Feb 2016 (8 months)

Leading the technical infrastructure design and implementation at JumpCloud.

- Multi-cloud infrastructure architecture and design.
- Multi-cloud configuration management and deployment strategy with SaltStack.
- Multi-cloud system and application monitoring.
- Managing costs.

- Mentoring junior staff.
- Participating in production on-call duties.

Technologies Used:

- Amazon AWS (VPC, EC2, AMI, S3, IAM, ELB, Trusted Advisor, AWS CLI)
- Google Cloud Platform
- SaltStack, Vagrant, Packer, Terraform, Docker, Jenkins, StackDriver



Sr. Infrastructure Engineer

Aetna, a CVS Health Company

Oct 2014 - Jul 2015 (10 months)

A member of the SaaS Operations team responsible for the technical infrastructure and critical support of iTriage's core application and its complementary web services. In addition, responsible for furthering the feature development and maintenance of Utopia, a platform-as-a-service (PaaS) built on top of Apache Mesos/Marathon. This PaaS is leveraged by many development teams at iTriage for testing and deploying their own software onto. The SaaS Operations team focuses on bringing innovation through leveraging cloud services and systems automation to help drive iTriage's business forward.

- Built out the initial SaltStack configuration management environment.
- Designed new AWS VPC architecture with an AWS resource naming convention.
- Development of Utopia infrastructure services.
- Helping to drive change by focusing team to practice Agile Operations.
- Mentoring of junior engineers and giving company technology presentations.
- Participating in rotating production on-call duties.

Technologies Used:

- Amazon AWS (VPC, EC2, AMI, S3, CF, IAM, ELB, Trusted Advisor, AWS CLI)
- Ruby, SaltStack, Vagrant, Docker, Apache Mesos, Mesosphere (Marathon), Jenkins, New Relic



Sr. Infrastructure Engineer

Rally Software

Apr 2014 - Oct 2014 (7 months)

A member of the SaaS Operations team responsible for the technical infrastructure and critical support of Rally Software's core application and its complementary web services.

- Helped migrate Flowdock.com from a private datacenter to AWS (in Q3 2014).
- Designed the Flowdock.com AWS EC2 AMI creation process with Packer while incorporating CIS Internet Security standards.
- Helped drive change by focusing team to make and meet commitments.
- Mentored junior staff members.
- Participated in rotating production on-call duties.

Technologies Used:

- Amazon AWS (VPC, EC2, AMI, S3, CF, IAM, ELB, Trusted Advisor, AWS CLI)
- Ruby, Puppet, Chef, Packer, Vagrant, Docker, Jenkins, Splunk

- Dell r6XX/r7XX/r8XX/r9XX series servers
- VMWare ESXi
- NetApp (7-mode) SAN
- Cisco ASA 5500 series firewall and Catalyst 3560 series switches
- Citrix NetScaler load balancers



Sr. Systems Developer

Pearson

Sep 2013 - Apr 2014 (8 months)

A member of the Cloud Systems Development (CSD) team responsible for furthering the feature development and maintenance of a platform-as-a-service (PaaS) built on top of Amazon's AWS suite of technologies. This PaaS is leveraged by many development teams at Pearson North America for testing and deploying their own software onto. The CSD team focuses on bringing innovation through leveraging cloud services and systems automation to help drive Pearson's business forward.

- Developed puppet-magnum, a RubyGem that helps Puppet developers quickly create consistent modules and leverage the following test tools: rspec-puppet, serverspec, puppet-lint, puppet-git-hooks, puppetlabs_spec_helper, and vagrant.

Technologies Used:

- Amazon AWS (VPC, EC2, S3, CF, IAM, ELB, Trusted Advisor, AWS CLI)
- Netflix OSS (Edda, Ice)
- Ruby, Puppet, MongoDB, Cassandra, GlusterFS, Redis, ElasticSearch, Jenkins, Zabbix



Sr. SaaS Operations Engineer

Rally Software

Dec 2011 - Sep 2013 (1 year 10 months)

A member of the SaaS Operations team responsible for the technical infrastructure and critical support of Rally Software's core application and its complementary web services.

At Rally Software we embrace a close collaboration with development and operations staff (DevOps), work in an agile environment, continuously deploy and release our code, perform post-mortems for any production issues, and focus on automation to help drive our business forward.

- Lead the operations work for building out and migrating Rally Software's new analytics engine, a MongoDB backed infrastructure, from alpha to production.
- Tested, configured, and rolled out next-gen Dell r810 servers for Rally Software's core application Oracle database.
- Migrated from Puppet to Chef to further automate software releases with seamless build and deployment pipelines and supporting Rally Software's continuous delivery vision.
- Monitoring, capacity planning, performance/load testing of our SaaS production environment and internal development systems.
- Worked with different Rally Software development teams to operationalize their web services for production environments.
- Configuration management of production and testing server resources via Puppet/Chef.
- Participated in rotating production on-call duties.

Technologies Used:

- Amazon AWS (EC2, S3, CF, IAM)
- Ruby, Puppet, Chef, MongoDB, Cassandra, Ganglia, Jenkins, Splunk
- Dell r6XX/r7XX/r8XX series servers
- VMWare ESXi
- HP LeftHand and NetApp (7-mode) SAN
- Cisco ASA 5500 series firewall and Catalyst 3560 series switches



SaaS Operations Engineer

Rally Software

Jun 2011 - Dec 2011 (7 months)

A member of the SaaS Operations team responsible for the technical infrastructure and critical support of Rally Software's core application and its complementary web services.

At Rally Software we embrace a close collaboration with development and operations staff (DevOps), work in an agile environment, continuously deploy and release our code, perform post-mortems for any production issues, and focus on automation to help drive our business forward.

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- Cisco ASA 5500 series firewall and Catalyst 3560 series switches



Software Engineer III

Avaya

Jun 2006 - Mar 2010 (3 years 10 months)

Served on teams responsible for the customer management, configuration, and deployment of the following core Avaya telecommunications products:

- Avaya Aura Communication Manager
- Avaya Aura Session Manager and System Manager

Avaya Aura Team (2008 - 2010)

- Member of team managing a JBoss A/S and CentOS 5 based Linux OS for Avaya's upcoming Aura Session Manager (ASM) and System Manager (SM) product family.
- Designing and developing consistent (database-driven) administration web interfaces with Java/JSF/Seam/Trinidad.
- Participating in an Agile work environment with daily Scrum meetings and revolving three week development sprints.
- Employing a test-driven development methodology by using tools such as JUnit and EasyMock for unit testing; and automating nightly tests of ASM administration web interfaces via tools such as Selenium.

- Producing and maintaining design and coding standards documentation for fellow developers.
- Managing the customer documentation teams in India for both Avaya CM and Aura projects.
- Collaborating with and mentoring other developers in remote locations such as New Jersey, Germany, India, and Israel.
- Attending various Linux, Java, and Avaya proprietary classes.

Avaya CM/OS Platform Team (2006 - 2008)

- Member of team managing a RHEL 4 based Linux OS for Avaya's flagship Communication Manager (CM) product.
- Supporting CM and RHEL 4 on current and future CM server hardware.
- Developing consistent web interfaces with PHP/Perl/HTML/CSS for various customer system administration purposes of a CM server.
- Implementing custom features for Avaya's top-tier clients (e.g. DoD, Citigroup) on a tight schedule with shifting requirements.
- Investigating and solving server software security vulnerability problems.
- Developing server back-end maintenance tools/daemons in C/C++/Perl/Bash.



Research Assistant, Geological Sciences

University of Michigan

Sep 2003 - Aug 2005 (2 years)

- Developed a Trolltech/Qt based graphical user interface for an existing geophysics application and verified cross compatibility under Windows XP, Mac OS X, and Linux.
- Ported and rewrote other existing software to C++.
- Collaborated with professors and graduate students demonstrating teamwork skills.
- Published research work in Reviews in Mineralogy and Geochemistry



Intern, Networks and Infrastructure Services

Orcom Solutions

Jul 2003 - Aug 2003 (2 months)

- Implemented a company-wide discussion board for software developers and presented demonstrations to upper-level management.
- Deployed and monitored a network intrusion detection system.
- Rewired the department server rack.
- Created an inventory of all network devices.
- Installed a network backup server.
- Produced documentation detailing all work performed at Orcom.

Education



University of Michigan

Bachelor of Science, Computer Science

2002 - 2006

Licenses & Certifications



Certified ScrumMaster (CSM) - Scrum Alliance

Skills

Linux • Red Hat Linux • CentOS • Agile • Java • DevOps • SaaS • Puppet • Nagios • Cacti