

NATE JOHNSTON

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WORK EXPERIENCE

Comcast

Principal Product Developer

Reston, VA

January 2011 | Present (discontinuous)

- Team lead and software developer programming primarily in Go and Ruby, working to engineer a holistic datacenter automation solution for Comcast.
- Responsible for creating technical designs, code reviews, and ensuring code and operational quality in an Agile/Scrum devops environment.
- Developed processes to extract and analyze utilization and billing data from AWS, Azure, and OpenStack.
- Helped build a Spinnaker-as-a-Service offering to offer hosted Spinnaker at enterprise scale.
- Designed, deployed, and provided full lifecycle support for containerized applications running in both Kubernetes and Mesos.
- Replaced the HP Server Automation service with multiple off the shelf open source systems.
- Designed, deployed, and supported a large multi-tenant Puppet Master infrastructure.

Comcast

Principal OpenStack Developer

Reston, VA

June 2015 | October 2016

- Core Contributor for both OpenStack neutron and neutron-fwaas.
- In the Mitaka cycle, I was part of a team of developers across multiple companies that collaborated to implement DSCP management within the Quality of Service (QoS) framework in neutron. I also presented about DSCP at the Austin 2016 OpenStack summit.
- In the Newton cycle, I led the neutron-fwaas team to implement FWaaS v2, a significant new version of the project. I coordinated heavily with the neutron team, and contributed heavily to both neutron and neutron-fwaas.

Comcast

Principal Systems Architect

Reston, VA

November 2011 | September 2013

- Developed and deployed an innovative server quality assurance and auditing system to ensure consistent delivery of quality server resources.
- Established a more rigorous data model for the operational CMDB that tracked server inventory and assignments, to ensure data quality and clarity of relationships between data sources.

Comcast

Principal Systems Administrator

Reston, VA

January 2010 | December 2010

- Comprehensive system administration, focusing on Solaris, HP-UX, and Red Hat Linux platforms.

AOL

Principal System Administrator

Reston, VA/Dulles, VA

June 2001 | December 2009

- SRE before it had a name. System administration, in-depth application administration, automation development, creating new monitoring, metrics, and CMDB infrastructure. Leader in cross-enterprise task forces.

SKILLS

Programming Languages:	Go, Python, Ruby, Shell
Container Technologies:	Docker, Kubernetes, Mesos, Marathon, Consul, Vault
Clouds:	OpenStack, AWS, Azure
Configuration Management:	Puppet, Ansible, Terraform

EDUCATION

University of Virginia

BA History

Charlottesville, VA

1993 - 1997