

# NATE JOHNSTON

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## WORK EXPERIENCE

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**Comcast** Reston, VA  
*Principal Product Developer* 1/2011 - 10/2011; 10/2013 - 5/2015; 10/2016 - present

- 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** Reston, VA  
*Principal OpenStack Developer* 6/2015 - 10/2016

- 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** Reston, VA  
*Principal Systems Architect* 11/2011 - 9/2013

- 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** Reston, VA  
*Principal Systems Administrator* 1/2010 - 12/2010

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

**AOL** Reston, VA/Dulles, VA  
*Principal System Administrator* 6/2001 - 12/2009

- 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

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

## EDUCATION

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**University of Virginia** Charlottesville, VA  
BA History 1993 - 1997