Nate Johnston

Potomac Falls, VA, USA · iam@natejohnston.info · (703) 473-4079 · https://natejohnston.info/

Work Experience

Comcast   Reston, VA
Principal Product Developer   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. Helped build a Spinnaker-as-a-Service
  offering to offer hosted Spinnaker at enterprise scale. Responsible for designing, deploying, and
  full lifecycle support for containerized applications running in both Kubernetes and Mesos.
  Replaced the HP Server Automation service with off the shelf open source systems. Designed,
  deployed, and supported a large multi-tenant Puppet Master infrastructure. Responsible for
  creating technical designs, code reviews, and ensuring code and operational quality in an
  Agile/Scrum devops environment.

Comcast   Reston, VA
Principal OpenStack Developer   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   Reston, VA
Principal Systems Architect   November 2011 | September 2013

- Developed and deployed a groundbreaking 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   January 2010 | December 2010

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

AOL   Reston, VA/Dulles, VA
Principal System Administrator   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   Charlottesville, VA
BA History   1993 - 1997