James C. Kling

Linux/UNIX Engineer
Network/InfoSec Lead
US Army Veteran

Indianapolis, IN
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Major Skill Set

Linux Engineering – 25+ Years
Suse, Red Hat & derivatives, Ubuntu / Debian
Bash/ksh/sh scripting, automation

Virtualization – 20+ years
VB, Qemu, KVM, OpenStack, VMWare, Containers

IaaS, Distributed Computing, HPC – 20+ years
Openstack,VMWare, OpenHPC on Openstack
Kubernetes, Docker, EKS, AWS, high volume deployment, fleet management

Network Engineering
Cisco, Cumulus, Dell/Force10 OS,
Juniper, Nortel, Neutron/Quantum, Monitoring

InfoSec
Patch planning, build hardening, vulnerability scanning, threat mitigation and response

Other Toolsets
Atlassian Suite (Full stack)
CM - Puppet, Chef, Ansible
LaTeX Documentation and scripting

Historical Skill Set

Database/Big Data
MySQL, Sybase, Oracle, Hadoop, Teradata

Build and Provisioning
Spacewalk and Satellite, Kiwi, Bamboo
Git and Mercurial, Gerrit and Jenkins CI/CD

Storage
Gluster, Ceph and Swift in Openstack
LVM, Veritas, EMC, XIV, 3Par, EQLX

2021 - 2026 NASA Goddard Space Flight Center___ Greenbelt, MD

2022-2026 : Network Team Lead // 2021-2023 : Principal Security Engineer

- Supported missions for satellites, imagery, and the Artemis lunar launches
- Neutron networking SDN, and evaluating next gen SDN options for legacy hardware
- Designed and implemented new NCCS infrastructure, including DNS, DHCP, PXE build environments
- Supported HPC clusters and Openstack support environments.
- Managed build infrastructure, including config management, git repository, and on-demand instantiation

2018 - 2021 Smarsh Portland, OR

Senior Operations Engineer, Senior SRE Systems Engineer

- SME for Linux and OpenStack, supported VMWare
- Build engineer for on demand VM and containers

2018 Amazon / AWS Elemental Portland, OR

Senior Systems Manager – (6mo temp contract as a fill in for existing manager's paternity leave.)

- Linux operating systems SRE
- AWS and on-prem, and CoLo datacenter support

2017 -2018 Boeing Corporation / HPE Bellevue, WA

HPE Helion / OpenStack Consultant

- 6 month contract with Boeing via HPE to deploy Openstack for engineering teams
- Deployed new Helion OpenStack environments, from Dev to Test to Prod
- Developed tools and packaging for internal deployment
- Required creative solutions to custom requirements with limited toolsets

2017 Intel Corporation Hillsboro, OR

OpenStack / OpenHPC Consultant

- OpenHPC on OpenStack –Virtualized HPC (supercomputer) clusters with Ironic
- LaTeX documentation and script generation from documentation
- Submitted project for inclusion in official OpenHPC project
- Short term contract, project finished

2016-2017 Sharp Labs of America. Camas, WA

Software Engineer

- Built Spacewalk and Openstack test environment from ground up
- Linux (Red Hat 6/7 and Suse), MacOS, and hardware support
- FTE role, Sharp Labs ceased SLA operations mid-2017

2015-2016 Cisco Systems Cary, NC

OpenStack Engineer

- Supporting OpenStack in multiple, multipurpose, global datacenters
- Nested (multilayer) OpenStack setup – Service clouds and Tenant Clouds
- Ansible-based automated deployment
- Originally six month Contract with GDH, extended to 18 months

2013-2015 Teradata Cary, NC

DevOps Engineer / Linux Team Lead

- Automated installations and updates of operatingsystems and company software
- Developed, built and maintained Openstack infrastructure environments from scratch
- Subject Matter Expert of Linux, Hadoop, Cloud Computing, and Teradata's RTIM product
- Automation via Puppet and Ansible

2012-2013 Credit Suisse RTP, NC

Principal Linux Engineer

- Developed provisioning via Spacewalk/Satellite and using Puppet for config management
- Security- DMZ builds and hardening- developed systems to be used in Switzerland for the bank

2008-2011 Fidelity Investments RTP, NC

Senior Linux Engineer

- Engineering for 50% physical/50% Virtual 15,000 node datacenters
- Hadoop clustering (Big Data / HPC) and Native Linux Clustering
- Developed multi-use Linux Desktop port for VNC export to provide native Linux tools

2007-2008 IBM >> Lenovo RTP, NC

Linux Test Engineer

- Developed Suse linux build for ThinkPad laptop line using pre-production hardware
- Tested new hardware against drivers, firmwares, and software suites for custom fleets
- Troubleshooting drivers and firmware for internal peripherals (NICs, modems, GPU, etc.)
- Transitioned from IBM role to Lenovo during acquisition

Military Service:

1994-1998 US Army: XVIII Airborne Corps Fort Bragg, NC

3/229th AVN - AH-64A(Apache) Helicopter Crew Chief - Honorable Discharge

Education:

1995-1996 DOD /TRADOC US Army Logistics School Fort Eustis, VA

Graduate in Logistics and Aviation Program

1998-1999 Purdue University West Lafayette, IN

Aerospace Engineering - transferred to NCState after 9/11 and changed major

2002-2006 North Carolina State University Raleigh, NC

Political Science and Computer Programming minor