

## JAPHETH C. CLEAVER

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### OBJECTIVE

Seeking a varied and challenging system and operational engineering position requiring new and creative applications of technology to solve functional problems.

### GENERAL QUALIFICATIONS

Can offer a diverse and eclectic background in Linux system administration, development, NOC management, consulting, site reliability engineering. Demonstrated proficiency in large scale Linux monitoring, operational engineering in a proactive manner, CI/build pipeline construction, mass RedHat deployments, high-availability Linux stack design, and NOC/SRE management in 24/7 service uptime environments.

### EXPERIENCE

#### **8/2018-present** **Sr. Linux Engineer, Helix/TAOS LLC**

- Linux systems engineering and PostgreSQL performance tuning for DNA sequencing and processing laboratory in mixed EL6/7 and Windows Server environments
- DNS re-architecture; monitoring using PRTG, SolarWinds, and SumoLogic endpoints
- RedHat Enterprise Linux OS version uplift (5/6 to 7), lifecycle and core IT monitoring functions for on-site deployments

#### **10/2016-6/2018** **DevOps Linux Engineer, Awarepoint, Inc**

- Lifecycle design for all AWS-hosted Linux clusters, including stateless redeployment and persistent OS stacks, and internal Linux operations and development servers
- Salt integration with Amazon EC2 systems deployment
- Kafka deployment for internal messaging bus with Kubernetes
- Primary engineering responsibility for forward-deployed Linux servers of medical RTLS data to best practices. (OS uplift, SELinux and security auditing, monitoring, lifecycle)
- Architecture of CI build systems for 3-tier java stack deployments, reimplementing existing RPM design with best practices for RHEL 6 and Apache Tomcat/Spring deploy

#### **1/2016-10/2016** **Contract/Consulting**

- Senior Linux Engineer (WWT, Inc) with Intuit
- Lead System Engineer (VACO), with FICO
- Lead Linux System Administrator (Insight Global), with HD Supply

#### **10/2015-12/2015** **Senior Systems Engineer, Everyone Counts, Inc.**

- Linux systems design for standard three tier web stack on site-deployed voting systems
- Architectural support for third-party auditing of live voting systems
- Chef config management and ELK (Elastic, LogStash, Kibana) use for CI pipeline

#### **9/2011-9/2015** **Staff Software Engineer, ServiceNow, Inc (San Diego, CA)**

- Architect and developer on the core Xymon monitoring platform, providing a unified raw data stream for 100K+ CI objects consumed by various downstream systems, including the Alerting, Business Intelligence, and Big Data platforms.
- Platform integration work with internal and external instances of the SN application.
- Drove cross-operational team collaboration on a variety of maintenance and technical initiatives, bridging SRE, OpsEng, SysEng, and Platform Development orgs.
- RPM packaging, scripting, and automation for RHEL/CentOS deployment images.
- Rotated/continual 24/7 on-call support

#### **5/2011-8/2011** **Unix Systems Engineer, Palantir Technologies (Palo Alto, CA)**

- VMware maintenance and deployment on Dell hardware
- Forward-deployed Linux installs for on-site govt and financial data analysis clusters.
- Performance monitoring and metrics for CI build systems.

**11/2008-5/2011 Unix Systems Administrator, Sony Online Entertainment**

- Deployment and maintenance of Linux systems and app software in multiple clusters across eight data centers totaling approximately 4000 mostly Dell PowerEdge hosts
- Took lead on several projects, including: host classification, Citrix Xen virtualization, third-party server hosting (for SCEA and other Sony entities), integration of internal build clusters on RHEL-like platforms, and RedHat automated provisioning tech (cobbler)
- Architectural planning for redesigns of DNS, internal mail service, configuration change management, and build control systems for game nodes and world clusters
- Evangelized cross-department coordination of monitoring systems, such as Zenoss and Xymon (and contributed code back to the latter project)
- Run-of-business activities included DNS, mail, Apache, and Tomcat configuration management, RSA SecurID (ACE/Server) management, OS upgrades, and security fix deployment across installed base for Sony's GISS compliance

**10/2006-11/2008 Senior System Engineer, Airband Communications, Inc.**

- Stayed on after purchase of Volonet Technologies performing substantially the same duties, but with added emphasis on VoIP infrastructure support
- Level-1 NOC management during transition and prior to outsourcing

**8/2003-10/2006 Senior System Administrator, Volonet Technologies (dba RedWire)**

- Product development and administration of managed services, dedicated Linux servers, and webhosting platforms
- Extensive critical support and programming for managed Linux server customers
- Deployment of clustered, HA Linux systems for internal and customer use
- OSS development and patching, and deployment using RPM
- Implemented custom billing and provisioning software to replace legacy systems
- Monitoring-system integration across Hobbit, Big Brother, WUG, Netcool, and mon
- Development and support of distributed qmail/vpopmail clusters using NetApp (SAN) and custom multi-TB RAID network storage. Services were still in use eight years later in substantially the same form.

**1/2000-8/2003 Chief Engineer (System Administrator), Internet Express, Inc**

- Provisioned and designed Linux, Solaris, FreeBSD, and IIS servers
- Provided direct support to collocation and advanced Linux/HA cluster customers
- Planned and implemented new products and services at medium-sized regional ISP (revenue forecasting, ROI, industry-tracking, etc.)
- General internal website administration, using custom CMS software built from XHTML, mod\_perl, fast\_cgi, and other tools
- Administered MySQL/MSSQL and NT4 and Win2K servers
- Perl and shell scripting for Big Brother, snmp, and RODOPI billing system integration
- Provisioning of DSL lines and other L2 support
- 24/7 on-call support

**1/1998-6/2001 Technology Coach, College of Education/SCHD, San Diego State University**

- AppleScript automation for Mac deployment; developed (classic) MacOS client for Big Brother monitoring system
- Off-site (in-house) training for Education Technology faculty members
- Oversaw 150-200 unit SCC Lab transition from ASIP to MacOS X Server (Rhapsody)
- Windows NT and MacOS desktop support to students and staff
- Help desk operation support; front-level support for LaTeX, HTML, Unix tools

**EDUCATION**

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| 1996 | San Diego High School, International Baccalaureate program<br>HL English/Mathematics, SL Economics/History. Graduated GSE HH, 1510 SAT |
| 2011 | San Diego State University<br>BA Philosophy; BA Political Science  |

**VOLUNTEER WORK/ORGS**

15-yr member, Kappa Kappa Psi/Tau Beta Sigma, National Honorary Band Service Fraternity/Sorority  
- Leadership development; regional nomination, and national parliamentary revision committees  
CERT/Medical Reserve Corps San Diego; ARRL (QRZ: KI6IIE); EMT-B certified  
Triple Nine Society, National Association of Parliamentarians

## **SKILLS AND KEYWORDS**

Xymon, Perl, Bash, Shell, syslog, Jenkins, Cobbler, Kickstart, SELinux, Java, Spring, VMWare, CI/CD, HyperV, Big Brother, Citrix, Xen, RPM, CPAN, CentOS, PRTG, Kafka, RedHat Enterprise Linux, RHEL, Red Hat Linux, Fedora, Yum, SumoLogic, RedHat Kickstart, Catalyst, TCP/IP, XFS, qmail, vpopmail, ELK Stack, Apache, bind, Kafka, Tomcat, Puppet, postfix, Courier-IMAP, dovecot, memcached, SNMP, Salt, DJBDNS, RabbitMQ, Hobbit, Cacti, Zenoss, CFengine, Puppet, HA Heartbeat, Ansible, Pacemaker, Subversion, GIT, MySQL