

Douglas K. Landau

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Objective: Seeking to re-enter the workplace after a 5 year hiatus, with a role as Site Reliability Engineer, Linux Admin, Software, QA, or Platform Engineer

Qualifications: 30+ years professional experience: 20+ as developer, 10 in QA, 8 as Linux Admin, VMWare Consultant

GitHub: <https://github.com/douglandau>

LinkedIn: <https://www.linkedin.com/in/douglaslandau>

Hobby Websites: www.theoryofracing.com, www.doordashmath.com

Skills:

- Java, C, C++, Python, Perl, BaSH, PHP, Tcl/Tk, FORTRAN, Pascal, x86/PDP-11 Asm
- Mac OSX, RHEL, CentOS, Ubuntu, Tails, Kali, SuSE, Mint, FreeBSD, OpenBSD, NetBSD, Solaris, HP-UX, AIX, NetWare, AS400, RT-11, VMS
- Windows 2016 Clustering, Powershell, Win2012/10/8/7, Vista, XP, 2K3, 2K, NT, 98, 95, 3.1
- Apache, Tomcat, NGINX, Hybris Commerce, Rackspace, IBM WebSphere
- VMware vSphere 3.5 - 6.7, vCenter, vCloud Director, vShield, NSX, vSAN, vRealize
- Linux KVM, LVM, LibVirt, QEMU, OpenStack, VirtualBox, Docker, Kubernetes
- Sendmail, Postfix, NFS/NIS, iSCSI, LDAP/AD, OpenLDAP, Samba, FreeNAS, OpenFiler
- Ansible, Salt, JIRA, Jenkins, Accurev, Code Collaborator, Nagios, Stash
- Git, GitHub, Subversion, Perforce, ClearCase, Continuous, CVS, RCS, SCCS, RPM
- JavaScript/CSS, HTML, XML, LAMP, PHP, MySQL, XWiki, Yum, RPM, DNF, pkg
- X11, Wayland, GNOME, KDE, Unity, Xlib, Xt, Qt, Motif, incrTCL, Tk, XView, SunView
- BIOS, BMC, AMI, Tyan, Award, DMI, IPMI, EFI, UEFI, memtest86, PCI, SATA, eSATA
- Security Best Practices, OS Hardening, STIG, FIPS, SOX Compliance, AD Hardening, SolarWinds, Nmap, Nessus, Metasploit, tripwire, samhain, logwatch, PAM, iptables, ipchains, ufw, pf, pfSense, clamAV, psad, AIDE, rkhunter, fail2ban, SSH, SSL, GPG, Cipher Modes (Blockchain), SELinux, LUKS

Employment History:

2018 - Present

- Took one year off. Now one year has become 5
- Invented the Theory of Slow Turns in Auto Racing, www.theoryofracing.com
- Exposed Doordash as a modified Ponzi Scheme - www.doordashmath.com
- I am currently using Linux and MacOS and coding in C and C++ daily and have forgotten nothing! ***I will interview competitively***
- I consistently get the reputation: **He will figure it out when noone else can.**

Jul - Sep 2019 VMware/Windows Consultant Avue Inc, Sunnyvale, CA

- **Brought vSphere 6.7** ESXi and vCenter Appliances, an **OpenFiler** iSCSI server and a **FreeNAS** server, and a **Windows 2016 Failover Cluster** online
- **Wrote PowerShell scripts** to **harden AD** and enforce security best practices

Aug 2016 - Nov 2017 Sr. Linux SysAdmin West Marine, Watsonville, CA

- **SRE/Oncall**: As one of four engineers in IT and the sole Linux resource, I was on call one week per month, and required to start digging and continue until understanding the area of the failure before involving others
- **Responsible for 250 CentOS and RHEL servers**; about half at **Rackspace**
- **Responsible for Apache HTTPD-2.4.7 and Tomcat-6, SAP Hybris-5, IBM Websphere; Postfix, DHCP, NFS, Git, FreeIPA, Samba, YUM, SSH, proxies**
- **Manage SSL certificates**: purchase **new certificates from Verisign** for public-facing servers, create **others signed by internal authority**
- **Apply OS updates and security patches**. Verify PCI and SOX compliance
- **Upgraded 220 servers to RHEL-7** from CentOS-6 and RHEL-6 on Rackspace
- **Monitored all hosts using SolarWinds**. Wrote templates, actions, triggers
- **Installed+configured XWiki+Tomcat+NginX+MSSQL** to create IT wiki
- **Installed+configured Samba 4.2 server** as an AD Domain Member
- Member of **Hybris-5 to Hybris-6 upgrade** team
- **IBM Websphere debugging**
- **IBM AS400 scripting**

Aug 2015 - Feb 2016 Sr. Virtualization Engineer Pivotal Labs, Palo Alto, CA

- **Administered** three VMware clouds (**vCloudDirector, vSAN, NSX**) with 90 physical hosts running **500+ VMs**
- **Deployed new and destroyed used infrastructure constantly**
- **Upgraded vSphere** and **VCD** from 5.1 to 5.5 and 5.5 to 6.01, using the **VUM**
- **Upgraded firmware** in **Dell** and **Cisco UCS** servers and **Brocade** adapters

Aug 2014 - Aug 2015 DevOps Engineer, Seagate, Fremont, CA

- **DevOps** for SandForce (now Seagate Flash Component Division). Supported 50 firmware engineers developing SSD controllers
- **Build+Release**: Ran CI/CD pipeline using Jenkins, debugged broken builds
- **Admin** of Linux KVM-LVM apps: **JIRA, Jenkins, Accurev, Code Collaborator**
- **Admin** of build servers, test hosts, file servers, **OakGate + ULink** lab stations
- **Deployed** new **Dell 700-series servers, Ubuntu 14 and 15 on desktops**

Oct 2013 - Aug 2014 Linux Admin Vishay Inc (Siliconix) Santa Clara, CA

- **Administered Linux, VMware, and Windows** systems: installed upgrades, deployed new 3rd-party and open source software, etc.
- Provided **scripting** and **troubleshooting** services to users of Cadence and Mentor Graphics software, HP plotters and printers

Mar 2013 - Sep 2013 Sr. Java Engineer Tethys Bioscience, Emeryville, CA

- **Performed troubleshooting and tuning** of an appserver and patient record system, J2SE/Jdk-1.7_21, Apache Tomcat 7.0.40, CentOS 6.4
- **Reduced search response times from 4 minutes to 20 seconds**

Feb 2012 - Sep 2012 Platform Engineer Synnex Corp Fremont, CA

- Verified operation of software stack running on server platforms under development. In other words, **tested** the latest **BIOS, BMC firmware, component firmware, device drivers, and CentOS**; and tracked latest revisions of the same
- **Instrumented using IPMI** to record temperatures, fan RPM and PS output, and with ps and top to log CPU, RAM, disk and net loads
- **Troubleshoot** problems and work with **Tyan, AMI**, and component vendors to report bugs and obtain patches
- **Seeded and flashed the latest BIOS, BMC firmware, and component firmware** on servers in production lines. **Configured** the **BIOS and firmware settings** (BMC,DMI,SMI,FRU, etc) as **per customer specs using IPMI** and other tools. Automated using Python

Feb 2009 - Jan 2012 VMware Consultant Self Employed Campbell, CA

- Provided **vSphere Install and Config** and training services to SMBs
- Installed/configured **storage, networking, templates, clusters; HA, vMotion, and DRS**; vMA appliances; created OVF appliances
- **Migrated** physical hosts to **VMs** using **P2V**
- **Used VMware PowerCLI** to **deploy and provision** new VMs **in 12 seconds**
- **Created FreeBSD iSCSI and NFS** servers, **OpenBSD** firewalls, LAMP portals
- **Wrote vSphere and VI SDK applications** in Java to monitor VMs
- **Developed** technique for **predicting** assigned **UUIDs** and **MAC** address of VMs and for seeding to guarantee collision avoidance
- Installed and configured the **Cisco Nexus 1000v**
- **Hardened Linux** hosts and **GRUB** to be **STIG** and **FIPS** compliant

Apr 06 - Aug 08 Automation Architect/Security Lead, VMware, Palo Alto, CA

- **The Senior Engineer in the QA department**, I was the architect of things and also a mentor to many/most in the dept.
- **Held overall responsibility** for all **security testing** of release 4 of vSphere (ESX, ESXi, vCenter, SDK)
- **Team founder and lead** of the QA-Security team
- **Tested and automated testing of NX+ASLR** (No eXecute bit and Address Space Layout Randomization) in the VMkernel and in the RHEL 5.1 i386 and x86_64 kernels
- **Tested** the initial releases of the **VMsafe** API and **TPM** support in ESX/ESXi
- **Tested** and automated testing of Server-2.0, Workstation-6.1, ViX-1.6, ESX/ESXi
- **Managed** the **QA department's migration** to **STAF**, an open source test framework, from the existing proprietary framework. Successfully delivered the long dreaded, nightmarish project which required rewriting 4 million lines of Perl tests, using the user's choice of language, which was usually Python, sometimes Java, and sometimes Jython

Sep 04 - Dec 05 QA Manager Symantec Redwood City, CA

- **Hired team** of 6 QA Engineers; half experienced, half recent BAs from SJSU, managed them while performing a full load of testing
- **Shipped a patch release every three weeks** of two Enterprise HIDS and HIPS systems, on Solaris, Linux, AIX, HP-UX; Managed and participated in the testing of the releases. Triaged bugs and held bug reviews, status and go/no-go meetings, shipped. Produced candidate builds, ISO images, gold CDs
- **Point of contact** and **Software Manager duties** for enterprise HIDS and HIPS. Wrote Release Notes, READMEs, press releases; made announcements, posted releases and checksums to web
- **Created a test automation framework** using SSH, Perl, Cygwin, Resource Kits
- **Performed lab admin** and **build & release roles** also for my department

Jan 01 - Aug 04 Sr. SW Engineer Counterpane Internet Security, San Jose

- **C Programmer:** Continued development of the software components of the company's managed intrusion detection service. Fixed bugs, added firewall support, configured kernels, produced builds
- **Perl programmer:** Wrote message filters using Perl Regular Expressions
- **QA Engineer:** Performed testing, vulnerability scanning, pen-testing
- **Platform Engineer:** Created the company's second product, a vulnerability scanner appliance, using OpenBSD, NMap, Nessus, XDM. PHP/MySQL

1986 - 2001

Freelance Programmer

Los Gatos, CA

From early high school to 9/11 I worked almost exclusively as a freelance programmer. Most roles were of developer; some were in QA (usually as SDET, occasionally as tester, lead, and manager), and some were as SysAdmin, of SunOS, Solaris, AIX, HPUX, SCO, Linux, and FreeBSD.

The language was usually C but 5+ years of both C++ and Perl development were present, as were 3 of Java, PHP, TCL/Tk, Pascal, FORTRAN.

X Window System applications, medical imaging applications, image processing and color use were recurring themes. Better-known clients from this period include:

- **Apple**
- **Cisco**
- **Sun**
- **NASA**
- **USAF**
- **Siemens Medical Labs**
- **Varian**
- **Frame (now Adobe)**
- **Charles Schwab**
- **Signetics**