

Armando Cerna

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Site Reliability Engineer - BitMEX, San Francisco, CA April 2019 - Present

- Built tooling to facilitate alerting from different metric sources: cloudwatch, graphite synthetic checks to alertmanager.
- Led project of build out of APAC data center including managing build out of cage, purchasing of internet circuits, working with APNlc to allocate ipv4 space (In-progress)
- Built tooling to test and send metrics dns response time/query success rate in k8s as well as other metrics
- Postgres RDS to Aurora migration

Sr Devops Engineer - Mavenlink, San Francisco, CA October 2015 - April 2019

- Primary On-call
- Lead the push for migrating non containerized workloads to Kubernetes
- Built tooling to allow Kubernetes powered staging environments on demand attached (Instastage) triggered by the creation of a pull request.
- Built custom tooling in go for CD pipelines
- Leveraged Terraform to provision infrastructure in AWS and GCP
- Led training sessions on Docker and Kubernetes usage and best practices both one on one and in a group setting.
- Improved developer experience by utilizing a container focused development approach allowing a reproducible portable development environments
- Led weekly recurring one on one coaching sessions with junior engineers on career growth and goals.
- Wrote custom playbooks for Ansible for configuration management in AWS as well as bootstrapping our engineering workstations.
- Managed and built reporting for cost management in AWS and GCP

Operations Engineer - Anaplan, San Francisco, CA August 2013 - September 2015

- Primary On-call
- Production Support in a high traffic environment spanning multiple global data centers
- Maintained, developed recipes for Chef automation
- Production deployments with Chef and Rundeck
- Cobbler and Kickstart to provision new VMs
- Production support of JBoss large heap JVM application servers hosting core application
- Built and managed custom backup infrastructure powered by AWS storage gateway
- Performed firewall migration from Fortigate to Cisco firewalls
- Wrote Dockerfiles to start the process of integrating Docker containers into our development process

Senior Systems Administrator - Auctiva, Chico, CA February 2012 – August 2013

- Headed up a complete data center migration
 - Zero downtime incurred
 - 14 full racks
 - Cutover IP space using BGP
 - Migrated from VMWare GSX and OpenVZ to XEN
- DNS migration from BIND to Route53
- Production support on call duties for multiple products
- Optimized Postfix mail server cluster that routes over 3 million messages daily.
- Deployed BGP ISP failover for main production data center
- Tested, configured and deployed F5 load balancers.
- Wrote Python scripts for internal mail server health checks
- Primary On-call

Systems Administrator - Auctiva, Chico, CA October 2008 – February 2012

- Virtualized 42% of the physical infrastructure using VMWare ESXi
- Active Directory administrator and main point of contact for server and workstation responsibilities.
- IPsec tunnel administration and configuration between data centers
- Cisco CSS Load balancer administration
- Production support on call duties
- Postfix to Google Apps email migration
- Deployed and implemented a EMC SAN in a large high traffic production network.
- Managed high traffic IIS and Apache servers as well as Linux mail servers.
- Migrated and consolidated Active Directory Domain Windows 2000 to Windows 2003.
- Primary On-call

Desktop Support Analyst - Pacific Gas and Electric (Contractor), Sacramento, CA August 2007 – March 2008

- Provided Second Tier Desktop support to a 23,000 client network.
- Primary point of contact for exchange support.
- Diagnosed and resolved client issues including:
 - VPN and token support
 - Operating System and Microsoft Office problems
 - Installing software applications
 - Routine software maintenance
 - Citrix support.
- Experience supporting Blackberry Desktop Manager software and handheld client support in addition to Blackberry Enterprise Server account maintenance and troubleshooting.

Counter Intelligence Agent, Special Agent, Double Agent at Best Buy/Geek Squad, Various locations July 2005 – July 2007

- Elk Grove, CA February 2007 – July 2007
 - Identified and improved the repair process, improving turn time and improving

organization.

- Repaired multiple computers per day, in addition to assisting other team members and checking in new units.
- Removed viruses, spyware, performed thorough diagnostics and troubleshooting.

- Thousand Oaks, CA October 2005 - February 2007

- Deployment and Support of Microsoft Small Business Server 2003 servers
- Deployed Sonicwall hardware and site to site VPN solutions
- Performed hardware maintenance and system upgrades
- Provided system support for Windows and Apple OSX platforms
- Installed and configured new hardware and operating systems
- Installed, configured and secured wireless networks
- Provided emergency on site support to businesses and residences

Instructor - Enatel Networks, Tarzana, CA July 2005 - November 2005

- Instructed students in UNIX/Linux, Apache web server, SAMBA/Windows integration, Linux firewalls, compiling from source, non-gui installations, and Linux best practices and security.
- Weekend courses covered introductory, intermediate, and advanced topics involving the Linux operating system.

Web Developer/System Administrator - Property Specs, Granada Hills, CA February 2005 - October 2005

- Created web software that provided a mechanism for California's Natural Hazard Disclosure requirement using PHP and MySQL database.
- Configured and administered the company website in a mix-mode environment on both PC and Macintosh.
- Served as systems administrator for a Windows 2003 Advanced Server.

Systems Administrator - InkASAP, Granada Hills, CA November 2003 - February 2005

- Administered both Linux and Windows Server 2000 computers.
- Planned and created a Linux backup server for company-wide backups.
- Performed daily administration on e-commerce site, such as order processing and database maintenance.
- Provided all desktop support to employees, troubleshooting outlook and DacEasy accounting software.