

# Leo Zhadanovsky

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## EXPERIENCE

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### **Amazon Web Services, Washington, DC**

*Senior Solutions Architect*

2/13 – 10/15

*Principal Solutions Architect*

10/15 – Present

- Provide technical solutions and architectures on at-scale, mission-critical projects for many top AWS customers, such as Democratic National Committee, Hillary for America, Organizing for Action, Mozilla Foundation, Harvard University, University of Notre Dame, Blackboard and Pearson
- Helped AWS customers with at-scale, mission critical launch events, such as banbossy.com
- Experienced public speaker, delivered talks at several conferences, such as AWS Re:Invent, PuppetConf, VelocityConf & OmniTI Surge
- Subject Matter Expert in DevOps, Scalable Web Architectures & Information Security, often work across the whole organization to help customers in these areas
- Lead AWS engagement with progressive political campaigns and organizations
- Helped write AWS certification exams, such as the DevOps (Professional Level) and Solutions Architect (Professional Level) exams
- Collaborate with and advise various customer stakeholders, from C-level executives to software engineers
- Mentor new AWS Solutions Architects

### **Democratic National Committee – Deployed at Obama for America National HQ, Chicago, IL**

*Director of Systems Engineering*

6/12 – 2/13

- Deployed at OFA HQ to do DevOps for various critical projects
- Architected and deployed new large scale Big Data Analytics system for OFA & DNC, supporting over 220 users, 27TB of data
- Assisted OFA DevOps in launching Voter Registration websites such as gottaregister.com, using Amazon AWS services, including EC2, ELB, RDS, SQS, SES, IAM and CloudWatch
- Experience rapidly building highly-scalable websites, using AWS, CDNs such as Akamai and Level3 and monitoring/app analytics services such as NewRelic and Chartbeat
- Architected and installed a highly available, scalable VMware system, allowing DNC to convert dozens of physical machines into VMs, and allow services run on the VMs to meeting election season demands
- Successfully launched dozens of high traffic websites, under tight budgets and short deadlines
- Configured custom geospatial service for Analytics, using GeoServer, to be scalable for use by all regional OFA offices around the US
- Configured Juniper SRX hardware to create a site to site VPN link, allowing fast, reliable, and secure networking between OFA HQ and the DNC's data center

### **Democratic National Committee, Washington, DC**

*Senior Systems Administrator & Systems Team Lead*

12/10 – 6/12

*Systems Administrator*

11/09 – 12/10

- Tech lead for re-launch of barackobama.com when President Obama announced his re-election campaign
- Used Amazon EC2 & RDS to architect barackobama.com to scale for launch day traffic
- Redesigned DNC Network infrastructure to be HA and eliminated all single points of failure
- Planned and executed move of DNC servers and network infrastructure into new, state of the art data center with minimal downtime and disruption of public-facing services
- Manage Systems team, ensuring it provides 24/7/365 response to any systems issues
- Renegotiated many contracts with various vendors to save the DNC hundreds of thousands of dollars

- Redesigned DNC's EC2 architecture to be able to scale on demand and configured systems on EC2 to be tolerant of both availability zone and region failures
- Ensured successful, downtime-free re-launch of Democrats.org by configuring servers, setting up CDN and designing a code deployment system, while working in tandem with web developers and New Media team
- Moved organization from various, outdated Linux distributions to a uniform CentOS 6 environment with regular security updates and a standardized install process
- Installed Juniper SRX network devices to replace outdated Cisco PIX firewalls & Cisco routers
- Migrated over 90 systems from physical servers into virtual machines on a Xen VM environment, saving DNC expenses in both power usage and maintaining hardware
- Secured Cisco ASA VPN device by enabling granular ACL to lock down access to internal systems
- Proactively monitored servers and services with Nagios & Cacti

**University of Chicago, Chicago, IL**

6/07 – 10/09

*Systems Administrator – Department of Astronomy & Astrophysics & Kavli Institute for Cosmological Physics*

- Administering workstations running Red Hat Enterprise Linux 4 & 5, CentOS 4 & 5, Fedora 7, 8, 9 & 10, Windows XP, OS X 10.3, 10.4 & 10.5, Solaris 9 & 10 and Ubuntu Linux
- Maintaining high traffic department web server running Apache 2, email servers running Postfix and Sendmail
- Provide technical support to faculty, staff and students of Astronomy Department and KICP
- Migrating servers running Solaris 7 to CentOS 5, including porting configuration of mail, web, print and nfs services
- Configured Cacti to monitor server bandwidth usage and graph server performance statistics
- Created an automatic network install environment for Red Hat, CentOS and Fedora workstations and server using PXE, NFS install mounts and kickstart
- Created RPM repository containing various astronomy software used by the department
- Configured departmental Wiki using MediaWiki software
- Installed and configured application server which runs websites and wikis (using MoinMoin) for students
- Administer and maintain websites for Astronomy Department clients and partners

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**EDUCATION**

**B.A., Information Technology and Informatics**

May 2007

*Rutgers University, New Brunswick, NJ*

Major GPA: 3.7/4.0