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Experience

2013-Present: Independent Developer

- Main Project: Powershame (http://powershame.com)
  - Productivity tool: Sends timelapses of your screen to friends
  - Backend: Flask webapp (user-facing site and RESTful API)
  - Asynchronous rendering via rabbitmq
  - Scalable EC2/S3 architecture, managed with Ansible
  - Cross-platform desktop client (wxwidgets)

Democratic National Committee

- *2011-2012: Linux System Administrator (team of two w/ Leo Zhadanovsky)*
- *2013: Lead Linux System Administrator*
- *Responsible for deploying and maintaining all major DNC architecture during 2012 Election Cycle*
- *Managed 200+ physical servers, mostly CentOS, including:*
  - *Vertica cluster*
  - *Hadoop cluster*
  - *High-availability web servers (Apache and Nginx)*
  - *Web application servers (Java frameworks and Ruby on Rails)*
  - *Load balancers (BigIP)*
  - *MySQL, Postgres, and Mongo DBs*
  - *Postgres mail servers*
  - *SAS and iSCSI RAID storage arrays*
  - *Xen and VMWare clusters*
  - *Secure network infrastrucutre implementing multiple VLANs, and high-availability (redundant) firewalls and routers, and minimum-permission configurations*
  - *Installed and maintained all hardware on-site and at colo*
- *Extensize AWS utilization, including but not limited to:*
  - *Multiple services hosted on EC2, scaled via Cloudwatch*
  - *S3 for static assets and one-off static sites*
  - *RDS for backend persistance*
  - *SES for high-volume mail sends*
  - *Route 53 for DNS*
  - *IAM for least-access delegation*
- *Designed hardware and/or cloud solutions on a per-problem basis*
- *Automated deployments using Jenkins, Puppet, shell scripts, and git hooks*
  - *Deployed projects include: CallTool, GottaRegister, Narwal, http://democrats.org, Democrats Abroad, Vote From Abroad, and the DNC online store*
- *Customized backup and restoration system for servers and DBs*
- *Built tracking tool to create nightly, browsable snapshots of third-party websites*
- *Implemented 800+ nagios checks, including custom checks*
- *24/7 on-call responsiveness for all Nagios and Pingdom checks*
- *Implemented PCI compliance*

Appliance Builders Wholesalers
- *2008-2010: Chief Technology Officer*
- *All IT-related responsibilites for a small company of 50+ users in 4 locations*

Research

2007: University of Chicago, Speech Synthesis for Tonal Language
2006: Rutgers DIMACS, Support Vector Machines and Seizure Prediction

Skills

Linux: 10 years experience deploying and maintaining servers (CentOS, Debian)
Python: 8 years experience
Misc Languages: Various experience with C, C++, Java, Lisp/Scheme
DBs: MySQL, Postgres, Vertica, Mongo
Extensive experience with AWS

Education

University of Chicago, 2009
- *Computer Science*
- *Focus on Artificial Intelligence and Machine Learning*

Hobbies and Misc

Project Euler
Google Codejam 2010, top 2000 worldwide
http://github.com/jaibot
University of Chicago ACM, 2006-2009