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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)
- <http://timelock.me> - Timed RSA key publication API

### *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
- Installation, Administration, and Monitoring for 200+ Physical Servers, including:
  - Vertica cluster
  - Hadoop cluster
  - High-availability web servers (Apache and Nginx)
  - Web application servers (Java frameworks and Ruby on Rails)
  - Load balancers (BigIP and ELB)
  - MySQL, Postgres, and Mongo DBs
  - Mail servers
  - High-availability storage arrays in the 1TB-1PB range
  - Xen and VMWare clusters
  - Secure network infrastructure implementing multiple VLANs, high-availability (redundant) firewalls and routers, custom traffic shaping and filtering, and minimum-permission configurations
- Extensive 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 persistence
  - 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: Narwal, CallTool, GottaRegister, <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 responsibilities 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

The most current version of this resume may be found at <https://github.com/jaibot/resume/raw/master/resume.pdf>