

## Education

- **Rutgers University** Piscataway, NJ  
*BA, Information Technology and Informatics* January 2006 - October 2009
  - BA in Information Technology and Informatics, Rutgers College / School of Communication and Information. Minor in General History.

## Work Experience

- **CMG Digital** Atlanta, GA  
*Automation & Tools Engineer* June 2013 - Present
  - Designed and developed large portions of “batteries-included” (CloudWatch, NewRelic, Logstash) single-click Python webapp deployment tooling using Puppet, Packer and AWS CloudFormation (Troposphere and Boto). Replicated for Wordpress and ported to internal VMWare environment.
  - Developed and implemented AWS tagging standard for complete per-app cost tracking (using NetFlix Ice); implemented AWS cost saving measures to reduce cost of some applications by up to 60%.
  - Developed a tool (awslimitchecker) to warn when AWS resource usage approaches Service Limits.
  - Designed Puppet3 infrastructure using latest best practices; planned and executed migration of 300 existing nodes to new infrastructure. This included monitoring and deployment/testing (Jenkins) /promotion of code.
  - Took lead role in design/planning and buildout of multiple production-like test environments; cut buildout time for environments 2+ by approximately 75%. Automated development environment creation to reduce buildout time by 60+%.
  - Planned use of environment variables in Apache httpd configurations to replace divergent configuration with a single git repository promoted between environments.
  - Developed vagrant-r10k plugin to allow provisioning puppet modules for Vagrant via r10k Puppetfile.
  - Planned and executed migration of 300 internal Git repos from legacy (ssh-based) server to GitLab. (in-progress 8/2015)
- **CMG Digital** Atlanta, GA  
*Systems Engineer* October 2012 - June 2013
  - General and On-Call duties in a large and fast-paced web media environment.
  - Deployed RPM build environment for internal and rebuilt external packages; packaged RPMs of Apache Tomcat, Zookeeper, and NodeJS for internal deployment.
  - Designed and deployed multi-node Graphite cluster for metric storage and display; began alerting off of metrics.
  - Proof of concept for migration from Nagios/NagiosSQL to Icinga with Puppet-generated configuration.
  - Rewrote Puppet yum/rpm version comparison to fix numerous bugs; merged and released in puppet4.
- **TechTarget (NASDAQ: TTGT)** Alpharetta, GA  
*System Administrator* November 2011 - October 2012
  - Design and implementation of Puppet-based configuration management and provisioning for all new server deployments.
  - Technical lead - monitoring and performance analysis of Linux OS and application software, VMWare ESX/vCenter5/vSphere; distributed Nagios and collectd infrastructure, Veeam One virtualization monitoring for end-users.
  - Development of internal tools and infrastructure; technical lead/architect for centralized logging, log analysis, DNS infrastructure redesign.

## • Rutgers University - Central Systems & Services

Piscataway, NJ

### • System Administrator

September 2007 - October 2011

- Specification, design, implementation and ongoing second-level support of centralized production services including configuration management (Puppet), DHCP, WPA2/RADIUS authentication and accounting, centralized logging (rsyslog), residential (dorm) network authentication / registration / DHCP infrastructure (30,000+ users).
- Extensive scripting and custom tool development (PHP/Ajax, some Java and Python) - Linux services, Puppet, ISC dhcpd, FreeRADIUS, Meru and BlueSocket wireless equipment, etc.
- Investigated security issues on campus wireless network; identified and analyzed security vulnerabilities in vendor-supplied software and hardware.
- Third-level support and troubleshooting of campus-wide wireless network and wired residential network issues. Assisted with network administration tasks.
- Development and proof-of-concept of University common area wired 802.1x authentication, with captive portal and MAC auth fall-through.
- Development and support of custom linux-based appliances / embedded network devices.

## Volunteer Experience

### • Midland Park Ambulance Corps

Midland Park, NJ

#### • (501(c)(3) non-profit)

January 2006 - January 2012

- Single person responsible for engineering and administration of mission-critical internal network, applications and Internet-accessible resources supporting 911 Emergency Medical response as a local, county and state resource.
- Developed VoIP-based system for EMTs to notify dispatch of their response to an emergency call.
- Responsible for design, development and ongoing support of a custom application to collect and store patient care records, as well handling crew scheduling and internal administrative functions.
- Served in numerous capacities including EMT-B, Crew Chief, By-Laws Committee Chairman, Computer Committee Chairman, Treasurer and First Lieutenant (operational second-in-command).

## Skills

**Languages:** Current languages: Python, Ruby, Bash/Sh. Previously used: PHP, Perl. Basic knowledge: C, Java.

**Operating Systems:** Twelve years experience in use and administration of Linux; 7+ years experience architecting and administering production/critical Linux servers. Majority of recent experience with CentOS/RedHat 5-7; former experience with SuSE (7.3-11.3). Vyatta Network OS/VyOS, Cisco CatOS and IOS.

**Software:** Strong: Puppet and related tools, Vagrant, Packer.io, Nagios/Icinga, Graphite, Apache HTTPD, Git, boto, pytest/Mock, AWS CloudFormation. Moderate: pip/virtualenv, MySQL, PostgreSQL, Solr, Logstash, Elasticsearch. Previous: Tomcat, Postfix, ISC BIND9, ISC dhcpd, FreeRADIUS, rsyslog, Asterisk, OpenLDAP, memcached. Protocols: RADIUS, DHCP, DNS, SNMP.

**Hardware:** HP Proliant, Sun, Dell and SuperMicro x86/x86-64 servers, HP iLO, Sun iLOM. F5 BigIp load balancers. Linux- and BSD-based network devices. Soekris embedded computers, Meru and BlueSocket wireless access points and controllers. Cisco network hardware. Avocent/Cyclades ACS console servers. Experience with physical infrastructure maintenance (copper, fiber, power) and data center operations.

## Open Source Projects and Contributions

See [resume.jasonantman.com](http://resume.jasonantman.com) for highlights, and <https://github.com/jantman>.