Aaron A. Bull Schaefer

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Work Experience

Senior Infrastructure Engineer   Dec 2013–Present
Beatport | SFX Entertainment — An Electronic Dance Music Empire   New York City, NY
- Architected a fully-automated, Jenkins-based, zero-downtime, deployment pipeline utilizing immutable infrastructure that launched and terminated 800+ EC2 instances per week within the AWS cloud
- Wrote the Ansible configuration management playbooks for multiple product teams to manage their development, staging, and production environments along with their supporting infrastructure
- Created the open source project "transcrypt" to transparently encrypt files within a Git repository
- Researched, tested, and documented new hardware & software technologies in order to formulate reliable technological recommendations and enable continual innovation
- Collaborated with a remote team to organize and accomplish all day-to-day operational tasks

Senior Linux Administrator   Feb 2012–Nov 2013
MNX Solutions — Linux Infrastructure Management & Consulting   Monroe, MI
- Developed full hands-off automation for deploying new servers into production; this allowed the client to deploy 60 hosts from scratch in thirty minutes compared to 6 hosts in a day previously
- Converted 95% of a client's existing servers to be under the direct control of Puppet and MCollective
- Maintained 250 servers supporting an application used to process ~25 million email messages per day

Systems Engineer   Jun 2009–Feb 2012
Wolfram Research, Inc. — The Makers of Mathematica and Wolfram|Alpha   Champaign, IL
- Initiated a centralized infrastructure for automated configuration management of all Linux machines
- Acted as project lead on migration of legacy mail/calendaring systems to a modern groupware suite
- Established consistent and streamlined software imaging procedures, which increased the efficiency of provisioning and deployment of Apple-based systems by over 800%

Site Operator   Apr 2003–May 2009
Purdue University, ITaP — Information Technology Department at Purdue   West Lafayette, IN
- Coordinated with a team to install, monitor, manage, and maintain roughly three thousand computers, one hundred printers, and several servers in a large-scale enterprise environment
- Provided first-tier technical support for over 40,000 students, faculty, and staff campus-wide
- Planned biweekly work schedules for all shift Site Operators and moderated daily time clock transactions and scheduling logistics for 200+ other employees

Education

Bachelor of Science with Highest Distinction   May 2009
Purdue University — Computer & Information Technology   West Lafayette, IN
- Specialization in Network Engineering — GPA: 3.97/4.0, Dean's List, Phi Kappa Phi

Technical Competencies

Amazon Web Services	Ansible, Chef, Puppet, Salt	Apache/Nginx Web Servers
Arch Linux Fellow	BASH/POSIX Shell Scripting	CentOS, Ubuntu, Mac OS X
Cloud Computing Architectures	Content Delivery Networks	Continuous Integration & Delivery
Corosync/Pacemaker/DRBD HA	Data Security & Encryption	Distributed Systems
High Availability Clusters	Open Source Development	Packer, VirtualBox, Vagrant
Service Discovery via Consul	Trend Monitoring & Alerting	iptables/PF/PIX Firewalls