
Colin Shea

SELF-TAUGHT PROGRAMMER, SYSADMIN, AND DEVOPS
EXPERT

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USA

Technical Skills

Mastery of: Linux, Ruby, Chef, Python, Puppet, TLS/SSL, git, AWS, MySQL, SaltStack

Proficient at: PostgreSQL, Java, HTML, XMPP/Jabber, Ansible, Redis, Heroku, ElasticSearch, Kibana, Logstash, MongoDB, C#

Knowledge of: Go, JavaScript, Elixir, VMWare, Ansible, .NET, PowerShell

Experience

[Internet Security Research Group -](https://letsencrypt.org)

December 2015 - August 2016

<https://letsencrypt.org>

System Administrator

The deployment and management of [Let's Encrypt - https://letsencrypt.org](https://letsencrypt.org) in a highly secure environment to create the first truly open CA. Part of the team shepherding it from closed beta to general access.

- Created policies to use public cloud infrastructure alongside the existing secure datacenters.
 - Worked with auditors and root trust programs to create and operate a high trust network.
 - Developed custom saltstack formulas for a variety of standard management tools within the high trust network.
 - Worked with the developers of [boulder - https://github.com/letsencrypt/boulder](https://github.com/letsencrypt/boulder) and [certbot - https://certbot.eff.org/](https://certbot.eff.org/) to help automate the creation of over 5 million TLS certificates, creating one of the largest certificate authorities in the world
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[The Evogi Group - http://www.evogi.com/](http://www.evogi.com/)

September 2013 - June 2015

Lead System Administrator

Configuration, monitoring, and deployment of 1,000+ Ubuntu and CentOS servers in AWS running Ruby on Rails, Java, Erlang and Go applications.

- Developed custom internal applications, for the operations and development teams, in Ruby, Go, and Java
 - Transitioned from a monolithic server architecture to a multi-tiered architecture using Amazon VPC
 - Spearheaded the first and subsequent international deployments
 - Revamped the authentication and structure for the internal admin panel of the Rails code base
 - Modernized configuration management and deployment using Chef 12 and Amazon EC2 Autoscaling
 - Deployed applications to Heroku, Elastic Beanstalk, and other PaaS services
 - Set up Nagios, Icinga, Shiken and ELK stacks to monitor components of the network
 - Helped administrate multiple MySQL databases with terabytes of data
 - Maintained patches against upstream gems and cookbooks to use internally developed libraries
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Cummings Engineering Consultants

January 2012 - April 2013

System Administrator

Configuration, monitoring, and deployment of servers across the world in a hybrid cloud running Java applications.

- Developed and deployed custom internal applications in Java and Ruby
 - Migrated servers from manual setup to configuration management using Puppet
 - Developed policies to secure our servers to our client's (NSA) standards
 - Located and decided on international targets across all continents to expand the network to fulfill ultra-low latency demands
 - Managed the internal git, Gerrit code review, NAS, and Jenkins CI servers
 - Managed PostgreSQL, MySQL and MongoDB databases in high security networks
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<https://www.uat.edu/>

Intern

Helped out with networking and Linux related tasks in the IT department.

- Answered staff's and student's questions
- Deployment of new Cisco routers and switches
- Management of Fedora machines, integrated with Active Directory and Exchange, to let non-technical students experience Linux for the first time
- Upgraded the network security lab, isolating it from the rest of the network to ensure regular client machines wouldn't be affected
- Created a library of shell scripts to spin up and manage new VMWare virtual machines in the network security lab

[\[Buffer\]Overflow - http://root-the-box.com/](http://root-the-box.com/)

January 2011 - October 2011

Chairman of the Root The Box Committee

As chairman, it was my responsibility to manage the committee with weekly status meetings.

</> Projects

[cattle-ranch - https://github.com/evaryont/cattle-ranch](https://github.com/evaryont/cattle-ranch)

June 2014 - Present

Wrapper cookbooks and recipes to automate building & managing my network

[mousehole - https://github.com/evaryont/mousehole](https://github.com/evaryont/mousehole)

September 2005 - August 2009

An HTTP proxy written in Ruby to allow users to change the web to their preferences

[arson - https://github.com/evaryont/cattle-ranch](https://github.com/evaryont/cattle-ranch)

April 2008 - August 2009

A download-only tool to help Arch users install packages from the AUR

🌟 Certifications

[Security+ -](#)

April 2010 - Present

[https://www.certmetrics.com/comptia/electronic_certificate.aspx?](https://www.certmetrics.com/comptia/electronic_certificate.aspx?cert=1900980)

[cert=1900980](https://www.certmetrics.com/comptia/electronic_certificate.aspx?cert=1900980)

CompTIA

[Linux+ - https://www.certmetrics.com/comptia/electronic_certificate.aspx?](https://www.certmetrics.com/comptia/electronic_certificate.aspx?cert=1902705)

April 2010 - Present

[cert=1902705](https://www.certmetrics.com/comptia/electronic_certificate.aspx?cert=1902705)

CompTIA

[Network+ -](#)

October 2009 - Present

[https://www.certmetrics.com/comptia/electronic_certificate.aspx?](https://www.certmetrics.com/comptia/electronic_certificate.aspx?cert=1792532)

[cert=1792532](https://www.certmetrics.com/comptia/electronic_certificate.aspx?cert=1792532)

CompTIA

[A+ \(IT Technician\) -](#)

June 2009 - Present

[https://www.certmetrics.com/comptia/electronic_certificate.aspx?](https://www.certmetrics.com/comptia/electronic_certificate.aspx?cert=1430280)

[cert=1430280](https://www.certmetrics.com/comptia/electronic_certificate.aspx?cert=1430280)

CompTIA

🎓 Education

[University of Advancing Technology - http://uat.edu](http://uat.edu), Tempe, Arizona USA

2010 - 2013

Triple Major, Open Source Technologies, Network Security & Network Engineering

Links

- [Website - http://evaryont.me](http://evaryont.me)
- [Code - https://github.com/evaryont](https://github.com/evaryont)
- [Twitter - https://twitter.com/evaryont](https://twitter.com/evaryont)