

# COLIN SHEA

SELF-TAUGHT PROGRAMMER, SYSADMIN, AND  
DEVOPS EXPERT

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USA

## ⚙️ Technical Skills

Mastery of: **Linux, Ruby, Ansible, Python, Puppet, TLS/SSL, git, AWS, MySQL, Chef, 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 [StrongMind - https://www.strongmind.com/](https://www.strongmind.com/) November 2017 - Present DevOps Engineer

Responsible for introducing various DevOps inspired practices and mentalities to the operations team. A heterogeneous network of Ubuntu and Windows across a hybrid cloud of physical, Microsoft Azure, and Amazon AWS servers.

- Brought in Ansible to configure every server with a consistent baseline.
- Developed a full monitoring stack with InfluxDB, Alerta, and Grafana.
- Developed internal tooling with Go, Ruby and Python to bridge various external APIs and glue internal microservices together.
- Introduced centralized logging with Graylog, with fully automatic deployment with Ansible and PowerShell.

## [Really Simple, Inc - http://www.byrsp.com](http://www.byrsp.com) November 2016 - May 2017 Senior System Administrator

Automation for an AWS based infrastructure with heavy integration of RedHat management technologies, supporting a hybrid Spring Boot, Tomcat and node.js platform.

- Ansible used to provision, deploy, and configure every server, and every service.
- Created, from scratch, new production alike environments for clients and contractors
- Managed security policies and handled incoming reports.
- Deployed Prometheus for monitoring, Logstash for centralized logging, LYNIS and OpenSCAP for auditing, Spacewalk for patch management, FreeIPA for AAA
- Developed internal tooling with Go, Ruby and Python to automate deployment and management
- Used Docker to create reusable containers across production, testing, and testing environments
- Jenkins used for continuous integration of Java, Node.js and Ansible code. Continuous deployment via RPM packages.

## [Internet Security Research Group - https://letsencrypt.org](https://letsencrypt.org) December 2015 - August 2016

### 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) in Go and [certbot - https://certbot.eff.org/](https://certbot.eff.org/) in Python to help automate the creation of over 5 million TLS certificates, creating one of the largest certificate authorities in the world
- Investigated Docker for hosting boulder in production and development environments
- Continuous integration of application code using Travis CI with continuous deployment via RPM packages.

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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
- Set up TeamCity for continuous integration with Rails initiated by Github webhooks

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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
  - Ran the test suite for both Java and Puppet code in Jenkins with Gerrit hooks
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[University of Advancing Technology - https://www.uat.edu/](https://www.uat.edu/) August 2011 - December 2011

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

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



*Certifications*

[SaltStack Certified Engineer - https://ssc.saltstack.com/search/?sscid=0x74A6AC32](https://ssc.saltstack.com/search/?sscid=0x74A6AC32)

April 2016 - Present

SaltStack, Inc

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

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

April 2010 - Present

CompTIA

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

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

April 2010 - Present

CompTIA

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

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

October 2009 - Present

CompTIA

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[A+ \(IT Technician\) -](https://www.certmetrics.com/comptia/electronic_certificate.aspx?cert=1430280)

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

June 2009 - Present

CompTIA

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 Education

[University of Advancing Technology - https://www.uat.edu](https://www.uat.edu),  
Tempe, Arizona USA  
2010 - 2013  
Triple Major: Open Source Technologies, Network Security & Network  
Engineering

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 Links

- [Website - https://evaryont.me](https://evaryont.me)
  - [Blog - https://evaryont.me/blog.html](https://evaryont.me/blog.html)
  - [Code - https://library.evaryont.me/evaryont/](https://library.evaryont.me/evaryont/)
  - [Twitter - https://twitter.com/evaryont](https://twitter.com/evaryont)
  - [More - https://evaryont.me/more.html](https://evaryont.me/more.html)
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