

Colin Shea

A PROGRAMMER, SYSADMIN, AND DEVOPS EXPERT

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USA

Technical Skills

Mastery of: **Linux, Ruby, PostgreSQL, Kubernetes, Ansible, Python, TLS/SSL, git, CI/CD, IaC, AWS, JavaScript & TypeScript, Docker, Gitlab**

Proficient at: MySQL, HTML, SQL Server, Redis, SaltStack, Puppet, Go, PowerShell, Azure, PHP

Knowledge of: VMWare, Rust, MongoDB, OCaml, ReasonML, Elixir, C#, Rust, Java, ELK Stack, Chef

Links

- [Website](#)
- [Blog](#)
- [Projects](#)
- [Mastodon](#)

Experience

[Qwick, Inc.](#)

June 2022 - August 2024

Staff DevOps Engineer

Leveling up the organization's DevOps chops as they were all developers without the appropriate specialized skillset. Instituted a number of reforms to allow for automated management with significant improvements to security.

- Rebuilt production with zero downtime from manually created Kubernetes 1.18 deployment to EKS 1.24 with Terraform to ensure we're not on unsupported versions.
- Upgraded the database clusters from PostgreSQL 11 to 15 in RDS resulting in huge performance improvements and switching from internet access to requiring a VPN.
- Spearheaded multiple penetration tests leading to many patches and fostering a culture of security awareness.
- Created and lead the Open Source Office and Compliance program.
- Authored dozens of documents, allowing colleagues to grok the network and improving resolution speed during incidents.

[Get Together, Inc.](#)

November 2021 - May 2022

Senior DevOps Engineer

Owned the developer experience tools that developers interacted with. Furthering automation to allow my team to focus on projects rather than ad-hoc requests.

- Managed servers in AWS to power an ECS (Elastic Container Service) cluster.
- Automated infrastructure with CloudFormation with an eye towards a Terraform replacement.
- Supported a PHP application powered by MySQL and Redis.
- Managed a fleet of build servers for running CI in Buildkite.
- Integrated a ChatOps approach to connect Github and Slack with a Python chatbot.

StrongMind

DevOps Engineer III

November 2017 - July 2021

Responsible for introducing various DevOps inspired practices and mentalities to the entire organization, along with migrating physical compute loads to the cloud. A heterogeneous network of Ubuntu and Windows across a broad hybrid cloud of VMWare, Microsoft Azure, Amazon AWS, and Google Cloud Platform deployments.

- Introduced and taught Confirmation Management and Infrastructure as Code concepts to automate every team's operations.
- Lead development of a full observability stack with centralized logging, unified metrics, and distributed tracing.
- Developed internal tooling with Go, Ruby and Python to bridge various external APIs and glue internal microservices together.
- Lead developer on a complete company-wide architectural overhaul to event-driven paradigms.
- Lead multiple teams, training people with no prior experience to mid-level developers.
- Contributed to the company's applications in Ruby, Python, C#, and TypeScript

Really Simple, Inc

Senior System Administrator

November 2016 - May 2017

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.
- Built automation to create clones of production 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 and testing environments
- Jenkins used for continuous integration of Java, Node.js and Ansible code. Continuous deployment via RPM packages.

Internet Security Research Group

System Administrator

December 2015 - August 2016

Deployment and management of [Let's Encrypt](#) 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](#) in Go and [certbot](#) in Python to help automate the creation of over 5 million TLS certificates, creating one of the largest certificate authorities in the world
- Continuous integration of application code using Travis CI with continuous deployment via RPM packages.

The Evogi Group

Lead System Administrator

September 2013 - June 2015

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
 - 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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Certifications [SaltStack Certified Engineer](#)

[April 2016 - Present](#)
SaltStack, Inc

[Security+](#)

[April 2010 - Present](#)
CompTIA

[Linux+](#)

[April 2010 - Present](#)
CompTIA

[Network+](#)

[October 2009 - Present](#)
CompTIA

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

[June 2009 - Present](#)
CompTIA

Education

[University of Advancing Technology](#), Tempe, Arizona USA

[2010 - 2013](#)

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