

Aaron Collins

Developer, Security, Operations Engineer

Contact

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<http://resume.crypto.sh> (<http://resume.crypto.sh>)

About

I have 20 years of experience in programming, security, operations and release engineering. As an early cloud adopter, I've learned, the amount of services I manage increases to infinite possibilities. Using containers, I've changed my mental model of what a task is. I strive to make all scripts, jobs and apps run out of a container to achieve my goal of sleeping all night. Since all tasks should now be run from a container most of my time is now spent creating configurations to building C.I.C.D. pipelines or auditing security and training other engineers best practices.

Profiles

Twitter

[analogrithems](#)

Github

[analogrithems](https://github.com/analogrithems) (<https://github.com/analogrithems>)

LinkedIn

aaroncollins42 (<https://www.linkedin.com/in/aaroncollins42/>)

Work

Chegg

2015-08-03 — 2018-03-02

Sr. Devops

<https://www.chegg.com> (<https://www.chegg.com>)

Responsible for implementing software defined infrastructure, training Jr. engineers and researching new infrastructure goals. Developed automated jobs to deploy code and manage infrastructure. Helped marketing team implement blog platform and assisted engineering team debug performance issues.

Highlights

- Deployed identity management solution to grant access to 1k developers across 2500 hosts
- Developed automated monitoring and provisioning system to aid in auto-scale
- Created and managed docker clusters via Spotinst and ECS to lead effort in moving from virtual servers to containers
- Created base images and deployment tools to deploy new applications to containers.

ActivityRez

2012-02-01 — 2015-08-03

Technical Director / Lead Developer

<http://www.activityrez.com> (<http://www.activityrez.com>)

As Technical director and lead developer, I built a team and created an enterprise level activity reservation and booking system. The product immediately got the attention of the travel industries top players including Expedia, Disney, Pleasant Holidays, AAA etc. The system was designed as a SaSS product and featured a suite of tools for both mobile and desktop productivity. I was responsible for increasing revenue 1000% in 2012.

Highlights

- Personally responsible for getting company PCI/DSS Compliant (Wrote Policies &

Procedures, Created Security Awareness Training, Completed QSA Audit & Pentest Audits)

- Created and solely managed entire auto-scaling infrastructure in the cloud (Chef and autoscale groups).
- Developed global enterprise activity booking and reservation system for web and mobile
- Built and managed build pipeline for all product lines git, jenkins, gradle and xcode
- Built container clusters to run customer facing web apps for each env

Hilo Hattie

2010-07-01 – 2012-02-01

IT Manager/Software Engineer<https://www.hilohattie.com/> (<https://www.hilohattie.com/>)

As IT Manager and Staff Software engineer I was responsible for several critical services for the company. The company was coming out of bankruptcy and I was hired to train new staff, build a new ecommerce site and get the corporate network infrastructure modernized and under budget.

Highlights

- Rebuilt and standardized network infrastructure across all islands and migrated corporate network to AWS cloud.
- Personally responsible for getting company PCI/DSS SAQ-D Compliant (Wrote Policies & Procedures, Created Security Awareness Training, Completed QSA Audit & Pentest Audits)
- Trained IT Team on how to manage POS systems and support accounting and ERP services
- Developed multiple ecommerce sites using C#, Java and PHP
- Implemented company first change control program.
- Created company first build pipeline with jenkins and git

Computer Science Corporation

2008-08-01 – 2010-07-01

Lead IT Engineer/Programmer

<http://www.csc.com> (<http://www.csc.com>)

Took a troubled observatory and turned it around by training the existing IT team and teaching them the skills to administer the legacy Irix/Solaris/Linux infrastructure. Designed and implemented a modern Linux/Windows infrastructure with emphasis on stability and security. Implemented enterprise LDAP infrastructure to manage Unix systems. Developed an opensource LDAP management tool in CakePHP. I was hand picked by the Air Force to design new Space Program Observatory Control Kit in C++ & QT. Created and wrote first ever site infrastructure documentation (MediaWiki) & monitoring portal via Wordpress + custom wordpress plugin to interface with nagios and cacti to tie monitoring into intranet. Got network Airforce EITDR Security certified. Managed and configured Switches, Routers and Firewalls. Received multiple awards for my work from the Airforce, Boeing and CSC. Upgraded and re-baselined all Cisco switches and routers to meet enterprise requirements. Developed software in PHP, Perl and C++ to upgrade infrastructure and automate operations. Developed several web applications for the DOD to do inventory control, account management/maintenance and satellite tracking. Obtained DOD TS Clearance. Trained ITIL v3 Foundation to meet AF Compliance.

HIC

2004-04-01 – 2008-08-01

Senior Systems Analyst and Security Analyst <http://www.ehawaii.gov> (<http://www.ehawaii.gov>)

Originally hired as the release engineer for the State of Hawaii web portal Honolulu.gov. I was quickly put in charge of managing all operations projects. As I advanced the network to a stable enterprise state, I was then put in charge of managing all security projects. This included certifying the infrastructure against HIPAA, SOX, PCI/DSS. Developed documentation portal using MediaWiki + LDAP Auth to keep all docs current. As the systems analyst I designed and managed a high availability Linux based Apache/Tomcat web farm. Managed and configured Cisco Switches and Firewalls. Developed web applications using PHP, Perl and Java. Due to their high traffic I later had to implement db caching with Memcache and PHP caching with APC. Administered Oracle and MySQL database servers. Did IDS monitoring and vulnerability scanning/mitigation. Created SNMP based usage trend analysis to predict upgrade budget requirements.

Development Guru

2003-02-01 – 2005-09-01

Consultant <https://developmentguru.com/> (<https://developmentguru.com/>)

I did onsite consulting for clients to manage and lockdown networks. Performed Novell to Windows migrations. Created managed turnkey firewalls for client sites that allowed for remote administration. Administered Windows 2000 Active Directory implementations for 10K users. Developed BSD NIS support in C for Samaba Project. Managed all IT projects for clients. Developed meta directory applications in Perl and C. Wrote Meta Directory White Papers. Developed automated desktop re-image software solution. Configured and managed Sonicwall Firewalls and Cisco Routers and Switches. I did on call 24/7 Support as well as IDS monitoring and vulnerability scanning/mitigation.

GTC Telecom

2001-08-01 – 2002-12-01

Lead Internet Infrastructure Engineer <https://www.mygtc.com> (<https://www.mygtc.com>)

I was relocated to California at the age of 19 to rescue a failing Internet Service. Within 6 months I had taken the ISP from 5k to 20k customers. Developed companies Disaster recovery policy and network security policy. Developed secure redundant firewalls, enterprise class LDAP infrastructure to manage all customers, customer web portal (using SSO via the previously mentioned LDAP) and custom AOL style signup CD.

Highlights

- Created customer support training guides
- Performed security awareness training for handling customer credit cards
- Built company first VMWare cloud cluster to manage ISP and make it highly available.

Dancris Telecom

1998-03-01 – 2001-06-01

Network Administrator, Tech Support Manager

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Starting in tech support I quickly became the manager of tech support and the systems administrator for a large ISP. I administered Linux, Windows and Solaris servers. Managed Apache and IIS web farms. Installed and managed the internal exchange server as well as customer sendmail/postfix servers. Trained and managed entire tech support staff. Developed billing software in Perl and C. Managed Cisco Routers and configured ATM circuits for DSL.

Education

CompTIA Security+

2010-02-03 – 2010-02-03

🎓 Meets the ISO 17024 standard and is approved by U.S. Department of Defense to fulfill Directive 8570.01-M requirements.

AWS

2017-11-30 – 2019-11-30

🎓 AWS Certified Developer
Associate

Awards

Boeing Excellence award

by Boeing

Awarded 2008-11-11

Granted for my effort in training the staff and developing a new fibre infrastructure

Boeing Excellence award

by Boeing

Awarded 2012-03-10

Granted for my efforts to develop a new Observatory control system

Skills

Devops

- Terraform
- Chef
- Puppet
- Frycook
- Cloudformation

- Jenkins
- Rundeck

Web Development

- HTML
- Javascript / EcmaScript
- Python
- PHP

Security

- Vulnerability Scanning
- Pen Testing
- PCI, HIPAA, SOX Certification

Languages

English

Native speaker

Interests

Home Automation

- Smarthings
- ZWave
- Zigbee
- Sonoff

Machine Learning

- Tensorflow
- Fast.ai
- Convolutional neural networks

References

Sr. Devops Engineer & Sr. Security Engineer at Chegg

– **Tim Galyean** <timg@chegg.com>

Lead Developer / Co-Worker for ActivityRez

– **Alex Boatwright** <drdelambre@gmail.com>

Developer for ActivityRez & Chegg Inc

– **Patrick Leonard** <dreamtear@gmail.com>

Partner Unity Crayons & Downbeat Diner

– **Josh Hancock** <josheightysix@gmail.com>