Ryan Linton
Site Reliability Engineer
Phone: 470-740-9840 | Email: ryan.linton010@gmail.com

Professional SUMMARY

I am a Site Reliability Engineer at General Dynamics with over 10 years of experience in working in production grade Linux/Unix based environments, primarily on AWS Cloud.

The day to day on my current role overseas AWS cloud environments for 4 different internal teams - each with their individual own products. Each product has its own unique architecture and respective AWS accounts and involves me having to work day to day with various AWS services like creating event driven, serverless architectures with Lambdas and AWS EventBridge, working with both ECS and multi tenant EKS clusters (hands on with helm charts, Istio service mesh). I also have to use a variety of cloud tools to manage and govern these environments like AWS Control Tower, Config as well as securing the environment with tools like AWS Shield, WAF, and Security Hub.

We follow best practice and implement all permanent infrastructure related changes through Terraform. I've also worked extensively building out pipelines and various jobs in Jenkins for different developers. If the project requires me to use alternative tools such as CloudFormation or Chef, I'm flexible with changes like that and can apply the same principles to pick up whatever alternative tools the project happens to use.

My biggest strengths are AWS, Terraform, and AWS Lambda functions and I would rate myself moderately experienced working hands on in Kubernetes, Ansible, Jenkins, and the various monitoring tools like Splunk, Datadog, Prometheus, Grafana, OpenTelemetry, and Apache JMeter.

I'm ideally looking to join a project as an SRE or Devops/Platform Engineer in a role with a strong focus on cloud infrastructure, automation, and monitoring.

Professional Work History

Site Reliability Engineer
General Dynamics | Kissimmee, Florida
January 2020 – Present

- Designed, developed through proof of concept, and brought to production a serverless, event driven architecture to implement a cost savings solution for our clusters by dynamically scaling out autoscaling groups, adjusting task counts, and restarting entire services based on either cron based or java based triggers.
- Added new resources like VPCs, S3 buckets, EC2s, Lambdas, IAM roles, EventBridge triggers, and clusters with Terraform
- Wrote Jenkinsfiles for new developer pipelines and wrote out the Groovy based Jenkins job definitions with Job DSL to XML plugin
- Helped design and create an auditing system with Elasticsearch and CloudTrail logs to verify that users connecting to our multi tenant EKS cluster received appropriate tokens matching their respective IAM permissions and pod namespaces
- Wrote out the core logic for cluster cost saving solution in Python via AWS Lambda functions. This function would receive triggers and make boto3 API calls to modify various resources as needed
- Created alerting rules in AlertManager for Prometheus, setup custom intervals for various applications to be scraped running in our Kubernetes cluster
- Worked a little bit with an add on to Prometheus called Thanos for some additional features we needed on one of our clusters.
- Wrote out alerts and dashboards in both Splunk and Datadog, coded out DataDog API queries in both Terraform as well as in Java for making HTTP requests.
- Used Postman as an API validation tool, worked very briefly with AWS API GateWay and ApiGee for hardening our APIs and adding additional security features.
- Have some hands-on exposure to using Anchorage Engine as part of our DevSecOps practice of scanning images and containers as part of the build process.
- Had to regularly investigate and troubleshoot error within Kubernetes cluster (usually some out of memory leak and figuring out if its developer fault with a heap dump or devops administrator fault via poor allocation limits)
- Deployed playbooks in Ansible to apply patches to large groups of VMs at once.
- Developed application code in Python with Flask and Java with Hibernate framework for object relational mapping and using servlets to make HTTP calls.

- Wrote some basic Dockerfiles and Docker-compose YAML files for building out applications with multiple layers and a few instructions
- Maintained some bash scripts and cron jobs for routine tasks

AWS DevOps Engineer
Citigroup, New York, NY
February 2018 – January 2020

Citigroup Inc. or Citi is an American multinational investment bank and financial services corporation

- Monitored Kubernetes Cluster API Server SSL Certificate Expiry by implementing Prometheus Blackbox exporter as deployed service onto separate monitoring namespace. It was implemented as a federated Prometheus server pull request from each cluster additional scraping job.
- Created Grafana alert mechanisms to trigger set duration ahead of the expiry date. This automation has a huge impact on the visibility of cluster service availability for the developer and production workloads by eliminating sudden access disruptions due to API Server, SSL Certificate expiry.
- Created alerting criteria to track total remaining bytes on each cluster VPC to alert us ahead of time before it runs out of space, so the DevOps Engineers can manage the required Volume Claim space by releasing required critical resources after backup.
- Developed Python code in AWS Lambda with AWS EventBridge to automate scaling ECS clusters up and down during business hours.
- Created 100s of Splunk and DataDog alerts, synthetic alerts, and monitors, as well as documenting and creating processes to ensure we're able to quickly respond to and fix any issues we run into in PROD environments.
- Updated AWS release cut deployments through updating Terraform code (Enterprise version) and running apply through our automated pipeline.
- Setup clusters, EventBridge rules, S3 buckets, IAM roles, VPCs, EC2s, NAT Gateways, Load Balancers through terraform modules.
- Bootstrapped EC2s and applied patches to servers through Ansible playbooks.
- Automated the list of checks to be performed for go-live on new version release cuts through Lambda scripts. Previously had to manually check about 20 different parameters in cloud environment and with databases to ensure release cut was successful.
- Setup Multi-Region Access Points (MRAPs) for S3 buckets in our production environment.
- Configured Route53 DNS routing rules to route incoming traffic to service endpoints for our application.
- Used Job DSL plugin for Jenkins to code in Jenkins jobs for various teams across our organization. The jobs were configured to be scanned and executed by a seed bot at a set time interval.
- Created Jenkinsfiles for coding in new pipeline jobs, complete with stages like retrieving from git via webhook, using build tool to compile the project, running SonarQube scans, unit tests, updating Docker tags, shipping off to our JFrog image repository.
- Setup monitoring with Prometheus and Grafana, edited the PromQL queries, scraped custom logs based on various criteria.
- Developed and maintained custom Kafka producers and consumers to handle specific data formats and use cases, including batch processing and stream processing.
- Troubleshot and optimized Kafka performance, including identifying and resolving bottlenecks, tuning configurations, and monitoring metrics such as throughput, latency, and CPU usage.

AWS DevOps Engineer
Pepsico, Inc., Purchase, NY

November 2016 – February 2018
PepsiCo, Inc. is an American multinational food, snack, and beverage corporation.

- Designed, configured, and deployed Amazon Web Services (AWS) for multiple applications using the AWS stack (EC2, Route53, S3, RDS, CloudWatch, SQS, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Built out pipelines and managed jobs for various teams using Jenkins scripted pipelines, Job DSL plugin for managing jobs across multiple product teams, JCasC plugin for managing all jenkins server configurations in a coded format checked into version control
- Worked closely with Senior Cloud Architects to design cloud based modernization strategies and promote a cloud native approach
- Consistently followed GitOps approach to projects to ensure all infrastructure, policies, security configurations, and access control is strictly done through code rather than via manual changes
- Managed multiple AWS accounts using AWS Organizations, GuardRails, SCPs (Service Control Policies). Managed AWS user accounts with AWS Control Tower to create account factories via Terraform modules
- Performed SRE roles involving monitoring and logging using tools like Datadog, Splunk, Prometheus, CloudTrail, CloudWatch agents, Grafana
- Created Python scripts utilizing boto3 library and AWS Lambda and AWS EventBridge to automate AWS services, (e.g., web servers, ELB, CloudFront distribution, databases, EC2, database security groups, S3 bucket and application configuration).
- Wrote Terraform modules and managed multiple workspaces to build the AWS services with the paradigm of Infrastructure-as-Code.
- Created and maintained highly scalable and fault tolerant multi-tier AWS environments spanning across multiple availability zones using Terraform
- Wrote terraform modules and implemented changes in different workspaces - Dev, Staging, Prod and DR environment

Build and Release Engineer
BlackSpade Financial Solutions, Atlanta, GA
March 2015 – November 2016

- Performed dedicated strategic and budget planning for all systems and related hardware and software.
- Deployed and Managed Linux/UNIX servers.
- Updated patches, software on a regular basis
- Provide on call support to 24/7 infrastructure deployment and troubleshooting.
- Spearheaded the research, evaluation, and feedback on problematic trends and patterns in customer specific issues such as network connectivity, software, hardware, etc.
- Developed and maintained problem tracking and resolutions databases, endeavoring to always ensure comprehensive and accurate documentation.
- Set up system to identify and repel any potential threats or attempts at unauthorized network access.
- Ensured enforcement of national and DoD security policies, directives, and standards.
- Handled remote control, patch management, operating system deployment, network protection, and other important services via the Microsoft SCCM platform.
- Installed, supported, and maintained servers and other related computer systems.

- Conducted detailed oversight to determine that all defensive mechanisms were in place and operational.
- Performed troubleshooting of customer issues over the phone and in person, accurately diagnosing and resolving issues in response to customer reported incidents.
- Utilized Remedy to address customer service issues. Maintained an expert affinity for Remedy, handling every step of the work order process within the software.
- Implemented thorough customer support policies, procedures, and standards, taking care to design them to be as enforceable and accurate as possible.
- Responded to server outages expeditiously, and corrected interruptions as quickly as possible.
- Managed source code repository, build, and release configurations, processes, and tools to support daily development, test, and production build and software deployment operations.
- Applied JIRA for issue tracking and monitoring.

Systems Administrator
Exelon Corporation, Atlanta, GA
October 2013 – March 2015

Exelon is a large utility provider company specializing in both electrical and nuclear power production.

- Installed and configured databases to meet stakeholder specifications for functionality and business return on investment (ROI).
- Designed and deployed host computers.
- Set up technical systems for automated monitoring of system performance.
- Took proactive role in procurement considerations specific to hardware, software, and communications IT components.
- Managed infrastructure upgrades, analysis and resolution of end user hardware and software issues.
- Facilitated IT enterprise architecture across organization's enterprise transformation programs.
- Defined and made public standards related to databases and related end-user technical applications.
- Applied knowledge of data backup, recovery, security, and integrity.
- Wrote SQL scripts to automate processes.
- Hands on with MySQL and MongoDB.
- Applied VMWare and SAN management and concepts.
- Wrote Shell, Perl, and Python scripts.
- Applied knowledge of protocols such as DNS, HTTP, LDAP, SMTP and SNMP.
- Performed troubleshooting/bug fixing and provided production support.

EDUCATION

Bachelor of Science - Integrative General Studies - University of Central Florida

Ryan Linton

- Kissimmee, FL, US

Contact Information

- w4q-1gq-nnm@mail.dice.com
- 4707409840

Summary

Focused and motivated with a strong background in computer science and cyber security. Seeking to utilize my new developed skills that demonstrate adept computer literacy, while gaining professional experience with a prestigious organization.

Work History

Total Work Experience: 11 years

- **Site Reliability Engineer General Dynamics | Kissimmee, Florida**
  Jan 01, 2020
- **Aws Devops Engineer Citigroup**
  Feb 01, 2018
- **Aws Devops Engineer Pepsico, Inc.**
  Nov 01, 2016
- **Build And Release Engineer Blackspade Financial Solutions**
  Mar 01, 2015
- **Systems Administrator Exelon Corporation**
  Oct 01, 2013

Education

- **Bachelors** | University of Central Florida

Skills

- **amazon route 53** - 13 years
- **amazon s3** - 13 years
- **amazon web services** - 13 years
- **cloud** - 13 years
- **configuration** - 13 years
- **infrastructure** - 13 years
- **production** - 13 years
- **software** - 13 years
- **software deployment** - 13 years
- **agile** - 11 years
- **architecture** - 11 years
- **python** - 11 years
- **api** - 10 years
- **cluster** - 10 years
- **json** - 10 years
- **load balancing** - 10 years
- **software release life cycle** - 10 years
- **scripting** - 9 years
- **security** - 8 years
- **devops** - 7 years
- **dsl** - 7 years
- **identity management** - 7 years
- **jenkins** - 7 years
- **splunk** - 7 years
- **troubleshooting** - 7 years
- **ansible** - 6 years
- **http** - 5 years
- **engineering** - 11 years
- **business requirements** - 9 years
- **qa** - 9 years
- **database** - 7 years
- **monitoring** - 6 years
- **linux** - 7 years

Work Preferences

- Desired Work Settings: Remote or Hybrid

- Likely to Switch: True
- Willing to Relocate: True
- Travel Preference: 25%
- Preferred Location:
    - Orlando, FL, US
- Work Authorization:
    - US
- Work Documents:
    - US Citizen
- Desired Hourly Rate: 75+ (USD)
- Desired Salary: 150,000+ (USD)
- Security Clearance: False
- Third Party: True
- Employment Type:
    - Full-time
    - Contract - Corp-to-Corp
    - Contract - Independent
    - Contract - W2
    - Contract to Hire - Corp-to-Corp
    - Contract to Hire - Independent
    - Contract to Hire - W2

Profile Sources

- linkedin: https://www.linkedin.com/in/ryan-linton-21302a239
- Dice: https://www.dice.com/employer/talent/profile/0146624ec5c6135541db933213944817