

Site Reliability Engineer Consultant

Site Reliability Engineer experienced in development, deployment, and observability of web applications utilizing JavaScript frameworks, CI/CD pipelines, and AWS cloud infrastructures.

TECHNICAL KNOWLEDGE

Languages: JavaScript (Angular/NgRx, Vue/Vuex), Python (Django), Java (Spring Boot), Bash
Data Stores: PostgreSQL, Elasticsearch, Redis
Provisioning: Ansible, Docker, Kubernetes, AWS, Jenkins, Gitlab
CI/CD Certifications: Elastic Certified Engineer, CompTIA Security+
Education: B.S. - Computer Science (UMW, May 2014)

WORK HISTORY

ECS Federal - Site Reliability Engineer (May 2022 to Present)

- Supporting observability, Elasticsearch, AWS, and engineering needs in public and private sectors.
- Architecting solutions in both a pre-sales and post-sales capacity from within a security operations center.

Ridgeline International - SRE Lead and Dep. Director of Software (December 2020 - May 2022)

- Spearheaded reliability efforts by improving deployments with Ansible, increasing observability with Elasticsearch, and introducing platform engineering with Kubernetes.
- As the Dep. Director of the Software Department, I provided leadership on the software development process and cross-team integration with systems and network engineers.
- Drove communication across business units and technical silos for design, planning, and incident analysis.

ECS Federal - Search Lead and Infrastructure Architect (December 2018 to December 2020)

- Developed a CI/CD pipeline for deploying a kubernetes based microservice architecture to OpenShift 3.11 using the Ansible, Kubernetes Operators, Jenkinsfiles, Docker, and a variety of AWS services.
- Contributed to the technical design and development of the Angular10/NgRx and .NET core application.
- Designed and deployed several Elasticsearch clusters with fine-tuned cluster management, custom indices/mappings, and custom kibana plugins:
 - *Observability* - Using APM, Filebeat, and Metricbeat deployed by k8s CRDs, I leveraged cross-referenced data to tune the cluster and CI/CD pipeline for speed and reliability.
 - *Application and Geospatial Search* - Designed index templates to support accessing data through a UI with search fields powered by search templates, typeaheads, and web-based GIS searches.
 - *ETL Pipelines* - Designed a pipeline utilizing Logstash, Elasticsearch, and RabbitMQ.

Northstrat - DevOps Engineer (January 2018 to December 2018)

- Created a CI/CD pipeline from scratch for a Java Spring web application on AWS C2S with Jenkins, Gitlab, CloudFormation, Puppet manifests, RPM Spec, and Systemd unit files working off GitOps principles.
- Implemented centralized logging with CloudWatch, DynamoDB, and Elasticsearch (ELK).
- Designed and replaced a front-end written in GWT with a Vue web application using Vuex/Webpack.

540 - System Engineer (November 2016 to January 2018)

- Provided technical oversight, design, development support, and deployment processes for a containerized application to AWS GovCloud running Java Spring, Docker, AngularJS, Elasticsearch, and PostgreSQL.
- Created technical design specifications, reviewed STIG compliance, and assessed infrastructure security.

Deep Net Solutions - Software Engineer (December 2014 to November 2016)

- Engineered CI/CD pipelines with Puppet 3, RPM Spec, and Jenkins to provision web applications.
- Worked horizontally across SAFe teams engineering python microservices (Django REST Framework, PostgreSQL, and AngularJS) with time on Development, DevSecOps, and Automated Testing teams.

CACI - Software Engineer (May 2013 to December 2014)

- Led an overhaul of a monolithic Java Struts/JSP application featuring jQuery ending in drastically faster load times and cleaner UI elements that worked in IE7 to Chrome.