JacobWernette

Site Reliability Engineer

werne2j@gmail.com   github.com/werne2j   werne2j.medium.com

Education

December 2014	**B.S in Computer Science**	**Central Michigan University**

Professional Experience

2020–Present   **IBM**   **Raleigh, North Carolina**
Site Reliability Engineer
- Initiated transformation of traditional Operations team into a Site Reliability Team
- SME for CI/CD, Containerization, Cloud Native and SRE principals across organization
- Architected and implemented new OpenShift cluster layout while increasing resiliency
- Transitioned team from manual infrastructure to IaC with Terraform and ArgoCD
- Increased observability of clusters, improved alerting and monitoring, reduced toil for engineers

2018–202   **Red Hat**   **Raleigh, North Carolina**
Software Engineer - CI/CD
- Automated manual build, test and release processes of productization of Open Source tools
- Built test suite for Jenkins Shared Library and became a SME on the subject, giving presentations and writing four articles
- Planned and Built a Command Line tool using Go to replace Jenkins Shared Library internals

2015–2018   **IBM**   **Raleigh, North Carolina**
Software Engineer II (Sept 2017 - Aug 2018)
Software Engineer I (Jan 2015 - Sept 2017)
- Designed, developed, tested, and supported tools used in IBM's internal business from proof of concept through production
- Built Node JS REST APIs, web applications, React JS component libraries, and NPM packages

Open Source Projects

2020–Present   **argocd-vault-plugin**   **https://github.com/IBM/argocd-vault-plugin**
An ArgoCD plugin to retrieve secrets from Hashicorp Vault and inject them into Kubernetes secrets

Technologies

Containers Docker Kubernetes OpenShift Operators Go Cloud Native Helm GitOps
ArgoCD Terraform Infrastructure as Code CI/CD Vault Travis CI Ansible Jenkins Git
Github IBM Cloud Artifactory Python SQL NoSQL PostgreSQL CouchDB Redis
Node JS React JS React Native Redux Jest Mocha Enzyme JavaScript HTML/CSS

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Articles

02/2021	**Solving ArgoCD Secret Management with the argocd-vault-plugin** https://itnext.io/argocd-secret-management-with-argocd-vault-plugin-539f104aff05
08/2019	**What Are Jenkins Shared Libraries And Why You Should Use Them** https://medium.com/@werne2j/jenkins-shared-libraries-part-1-5ba3d072536a
09/2019	**How To Build Your Own Jenkins Shared Library** https://medium.com/@werne2j/how-to-build-your-own-jenkins-shared-library-9dc129db260c
10/2019	**Unit Testing a Jenkins Shared Library** https://medium.com/@werne2j/unit-testing-a-jenkins-shared-library-9bfb6b599748
11/2019	**Collecting Code Coverage for a Jenkins Shared Library** https://medium.com/@werne2j/collecting-code-coverage-for-a-jenkins-shared-library-c2d8f502732e