JacobWernette

Site Reliability Engineer

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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

2018–2020   **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`

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