

Troy Liebel

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Work Experience

Dec 2020– **Site Reliability Engineer**, *ACV Auctions*.

- Present ○ enabled hundreds of developers to produce upwards of 75 releases per week by enforcing best practices across several **kubernetes** clusters in production, development, and sandbox environments hosted on **AWS (Amazon EKS)**.
- led an initiative to convert existing cloud assets to **infrastructure as code (Terraform)** to enable scalability and maintainability for the platform at large.
- streamlined developer release engineering by building an alias for **Helm** within **CI/CD (Jenkins)** that retrieves pod status and logs (**Splunk**) upon failure.

May 2019– **Cloud Engineer**, *Stark and Wayne*.

- Dec 2020 ○ Cloud Engineering Consultant, *Platform Engineering*
 - built platforms capable of supporting tens of thousands of developers and hundreds of thousands of applications leveraging **Cloud Foundry** and **BOSH**.
 - delivered fully documented, scalable, and maintainable platforms using **infrastructure as code (Terraform)** and **configuration management tools (BOSH, yaml)**.
 - created proof of concept clusters using both **fully-managed Kubernetes (Amazon EKS)** and **self-managed Kubernetes (Rancher, RKE)** to advise clients on their strengths and weaknesses in the context of a platform that must be ready to support hundreds of thousands of applications.
 - integrated **AWS Secrets Manager** as an alternative to **Kubernetes secrets** using a secret injection sidecar that enables teams to manage their own secrets within their separate **AWS** account's Secrets Manager while pushing apps to a single shared **EKS** cluster.
 - designed and maintained **CI/CD pipelines (Concourse)** to pull, test, deliver, and deploy new software versions to multiple environments.
 - maintained a Cloud Platform Management toolset alongside dozens of other **Open Source** contributors by monitoring the underlying software dependencies to add and sync features when new versions were released. Additionally, built and tested new Platform Management features including support for external databases (**RDS**) and secret management (**Vault, Credhub**).

2018–2019 **Software Engineer**, *The Boeing Company*.

- Boeing Commercial Crew Program, *Boeing CST-100 Starliner*
 - verified the spacecraft's flight management software via **Perl** scripts and manual scenario testing to ensure software meets formal quality standards.
 - directly assisted team members by creating versatile **Python** scripts that fully automates analysis of extremely large data sets.
 - streamlined database organization and **version control** for multiple teams by developing a flexible program with **command line** and **GUI** options that verifies configuration properties and conventions across thousands of files.

Education

2013–2017 **BS, Computer Science**, *University at Buffalo*.

- Computer Science Teaching Assistant – Software Engineering (CSE 442), Intro to Computer Science (CSE 115).