

Daniel Herrera

Interests

Site Reliability Engineering | Developer Tooling | Process Automation | Distributed Systems
Game Engine Design | Cyber Security | Data Science

Work History

Cloud Engineer @ Ultimate Software (Aug '17 - Now)

Develop new deployment tooling for a legacy, in-house deployment service

- Uncovered undocumented operations and deployment processes
- Recreated uncovered deployment process using Terraform, Chef, and Rake tasks
- Implemented new GitLab pipelines vet and deploy service
- Documented internal usage and operations playbooks for the service
- Configured alerting based off SLI's using SENSU and Telegraf
- Lead and assisted during service outages and upgrades both off and on call

Handle end-of-life maintenance for internal Pivotal Cloud Foundry offering

- Wrote automation to deploy, upgrade, and maintain PCF and its tiles
- Paired with Pivotal engineers on developing new core upgrade process
- Analyzed viability of upgrade process and evaluating alternative solutions
- Collaborated on solutions to smoothly off-board dozens of teams from PCF

Work with small team on developing an internal Kubernetes offering

- Collaborated on system specs with architects, security specialists, and consultants
- Researched K8s best practices and usage docs to ensure quality of work
- Iterated on deployment automation with kubeadm, Packer, Ansible, and Terraform

Develop career and technical skills to keep team and self successful

- Enrolled in and completed our internally offered, year-long leadership course
- Attended HashiConf 2018 to bring back new practices and the latest developments
- Participated in local hackathons to stay sharp and relevant with our community
- Became a certified GCP Architect in preparation for our company's adoption of GCP

Software Engineering Intern @ Ultimate Software (Jan '16 - Aug '17)

Maintain Ubuntu and Windows appliances leveraged by in-house deployment tool

- Leveraged tooling such as Chef, knife CLI, Kitchen tests with RSpec, and Rake
- Maintained docs up to date including changelogs, user docs, and announcements
- Helped internal consumers with general CI debugging and appliance questions

Configure monitoring for both internal services and customer-deployed appliances

- Wrote and maintained custom SENSU plugins
- Configured check-based alerts with SENSU for appliances
- Configured metrics-based alerts against our internal InfluxDB offering

Produce and maintain internal process automation

- Developed general process automation and in-team tooling
- Maintained internal CLI tools used to iterate on our offerings

*The above is only my recent work history
I cover my experience and skills far more in-depth on my website (link below)*