

Daniel Herrera

Interests

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

*Engineer with years of experience using software and process to do what I love:
solve problems and remove toil
I'm eager to become better at doing this by growing my skillset and experiences*

Work History

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

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

Related Tech: *OpenStack, Python, GitLab CI, Terraform, Chef*

Work to uncover and recreate the deployment process for a legacy Python OpenStack deployment API. New automation created that enabled reproducible builds and safe rollouts of changes. Monitoring and operations were also configured and documented to ensure future maintainability.

Developing an internal, cloud-agnostic Kubernetes offering from scratch

Related Tech: *OpenStack, K8s, Rancher, Terraform, Packer, Ansible*

Collaborate on initial system requirements and migration strategy with architects, security specialists, and external consultants. Initial implementation made using pre-baked images for cluster nodes with GitOps requests for auditing. Transitioned to deploying clusters with Rancher to enable better self-service.

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

Maintaining Ubuntu and Windows appliances leveraged by internal deployments

Related Tech: *Chef, RSpec, TeamCity, Ruby*

Supporting and developing configuration management code using Chef tooling such as cookbooks, the knife CLI, RSpec Kitchen tests, and Rake tasks. This included maintaining up to date user docs, changelogs, and announcements. Support provided for consumers ranged from usage help for appliances to general CI debugging and consulting.

Configure monitoring for both internal services and customer-deployed appliances

Related Tech: *Sensu, Ruby, Grafana, Telegraf, InfluxDB*

Writing custom Sensu plugins to alert on outage-specific scenarios. Wrote Chef code to dynamically configure custom Sensu checks for appliances deployed by consumers as well as metrics-based alerts for our services.

*The above covers major projects from my recent work history
I cover my experience and skills far more in-depth on my website (link below)*