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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*

Uncover and recreate the deployment process for a legacy OpenStack deployment API written in Python. New automation enabled reproducible builds and safe rollouts of changes. Future maintainability ensured by new monitoring utilities and operational documentation.

Developing an internal, cloud-agnostic Kubernetes offering from scratch

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

Collaborate with architects, security specialists, and external consultants on initial system requirements and company-wide migration strategies. Deliver initial implementation using custom pre-baked cluster node images and a GitOps workflow for auditable requests. Transition towards Rancher-managed clusters to further enable self-service for consumers.

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

Maintaining Ubuntu and Windows appliances leveraged by internal deployments

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

Accomplish major rewrite of previously unmanageable configuration management code with better documentation and architecture resulting in increased development speed and decreased customer errors. Fully leveraged subset of Chef tooling including cookbooks, knife, RSpec Kitchen tests, and Rake.

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)