

Jeffrey Fonseca — Resume

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Education

Cal State Northridge Computer Science Bachelors — expected graduation 05/27

Work Experience

Cirrascale Cloud

Intern

Date: 7/10/2023 - 8/26/2023

San Diego, California

- Installed and configured PFsense on Proxmox
- Automated deployment of proxmox via MAAS
- Installed multi-tenant Kubernetes compatible with Nvidia GPU's for machine learning tasks
- Assisted in building physical servers. Installing storage, memory, or Nvidia GPU's

Healing Wells — Behavioral Health Clinic

Helpdesk

Date: 2016 - 2022

San Diego, California

- Remotely supported 7 devices via Meshcentral
- Managed a wordpress site
- Managed an email server

Layer 8 Cybersecurity Club

President

Date: Fall 2023 to Ongoing

- 26 users taking advantage of services deployed and maintained using Kubernetes and GitOps.
- Enabled easy sign on via single sign on and fine grained authentication
- Offered VM's via Incus
- Hosted VDI with Kali Linux tooling via Coder
- Ran twice weekly meetings, workshops, and lectures for members

Collegiate Cyber Defense Competition Team Captain

- Actively defended 30 machines, in order to keep an environment online against professional red teamers
- Scripted incident response and security tasks on Windows and Linux using Ansible
- Led the team to consistently place top 8 among 30+ other collegiate teams
- Automated onboarding of users via Nix

Projects

- Deployed a Minecraft server using Podman to an Oracle Cloud VPS
- Built CI/CD Pipelines using GitHub Actions and Docker, to deploy to an AWS EC2 VPS, for a class project for AP CSP. Over 40 students utilized my pipelines for auto deployment
- Dockerized Node.js, Python, and Java applications
- Wrote technical documentation to assist students and teachers in AP CSP (E.g: duckdns)
- Instantly
- Deployed a point to site Wireguard VPN connection between my router and a VPS
- Installed OpenStack on Rocky Linux using Kolla-Ansible
- Deployed a Kubernetes cluster using FLuxCD (GitOps)

Skills

Cloud: Kubernetes, Terraform, Docker/Podman, AWS

CI/CD: GitHub Actions, Forgejo, Helm, FluxCD, ArgoCD

Languages: Python, Ansible, C#, Go, Java, Bash

Linux: Red Hat (and derivatives), Debian, Ubuntu, ProxmoxVE, Arch, NixOS, Alpine

Security: Secret Management (Sops), IAM (Authentik)

Databases: Postgres, Mysql/Mariadb, Redis/Valkey