Jeffrey Fonseca — Resume

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Summary

Avid user of Linux and related technologies for 6 years, intimately familiar with them through personal projects, daily usage, and teaching others. Proficient in both operations, and technical writing/documentation.

I have a site where I document all my work, write about tech, and post guides for other to use: moonpiedumplings.github.io

Professional Experience

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

Intern   San Diego, California

- Installed and configured PFSense on Proxmox
- Used packer to automate creation of a MAAS image that deploys Proxmox
- Documented K3's kubernetes, vcluster, and Kata-containers on Nvidia GPU's for machine learning operations
- Assisted in building physical servers, including doing tasks like installing storage, memory, or Nvidia GPU's

Healing Wells — Behevioral Health Clinic   Date: 2016 - 2022

Helpdesk   San Diego, California

- Deployed Meshcentral to manage a fleet of 7 devices and troubleshoot them remotely
- Managed a wordpress site, including adding a forms functionality to enable users to
- Managed an email server

Independent Organizations

Layer 8 Cybersecurity Club   Date: Fall 2023 to Ongoing

President

- 26 users taking advantage of services deployed and maintained using Kubernetes and GitOps.
- Deployed Incus to offer VM's
  - Used Single Sign on and Fine Grained Authentication to control access and authorization
- Used Coder on Kubernetes to offer Kali Linux VDI
- Organized weekly meetings, workshops, and lectures for members

Collegiate Cyber Defense Competition Team Captain

- Actively defended 30 machines, in order to keep an an environment online against professional red teamers
- Massively improved scores, taking us from
- Used Ansible and Python to automate security and incident response tasks on Linux and Windows devices
- Led a team of 8 people to regionals, placing in the 8 among 20 other Southern California collegiate teams
- Developed a reproducible Linux environment using Nix

Personal/Educational Projects

18.000 * 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) * Deployed Kasmweb on a highly performance optimized Ubuntu VPS * 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)

Education

- Cal State Northridge Computer Science BS — expected graduation 05/27
  - ☒ Introduction to Algorithms and Programming (COMP 110/L)
  - ☒ Data Structures in Java (COMP 182/L)
  - ☒ Calculus 2 (CALC 150B)
  - ☒ Computer Architecture (COMP 122)
  - ☒ Discrete Structures (COMP 256)