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

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

- 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

WUOTT — Beheivoral Health Clinic   Date: 2016 - 2022

- General helpdesk and tech support
- Deployed Meshcentral on an Ubuntu ⬤ VPS using Docker Compose 🐳 so I could access, manage, and troubleshoot Windows ⊞ devices remotely

Independent Organizations

President of Layer 8 Cybersecurity Club at Cal State Northridge   Date: Fall 2023 to Ongoing

CSUN competes in a cybersecurity competition, CCDC. Much of the work here is for that.

- Automated firewalls, backups, password shuffling and container management via Ansible
- Designed a reproducible development environment for Linux 🐧, Windows ⊞, and Mac using Nix ❄
- Introduced and taught people Linux 🐧, concepts, and related software 🐳, ❯_, ⓦ, ▤, 🛡, ⛸
- Did regular presentations, every Monday, on various cybersecurity, cloud, and devops topics
- Completed multiple NICE challenges, involving Linux 🐧, terminal ❯_, and database ▤ management. Wrote 5 Writeups to assist my teammates.
- Led the CCDC team to regionals as the Linux team lead, taking 7th out of 27 teams

Personal/Educational 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 aws EC2 VPS, for a class project for AP CSP. Over 40 students utilized my pipelines for auto deployment
- Dockerized Node.js 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)
- Deployed Incus (Proxmox/ESXi alternative) with Single Sign on and Fine Grained Authentication to control what resources invited users had access to

Current personal projects can be found on my website, where I document my work as go. I make it a point to pick challenges beyond my current ability. I don't always succeed, but I always grow in the process.

Education

The items in this section are in chronological order, from things I did first to things I did most recently.

- 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)