Jeffrey Fonseca — Resume

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Summary

Avid user of Linux 🐧 and related technologies for 5 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: my website

Professional Experience

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

- Installed 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 — Behevioral Health Clinic   Date: 2016 - Still ongoing.

It's my mother's business, so I help out a little bit when needed

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

Independent Organizations

Layer 8 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 on Linux
- Designed a reproducible development environment for Linux 🐧, Windows ⊞, and Mac using Nix ❄
- Introduced and taught people Linux 🐧, concepts, and related software 🐳, >_, ⓦ, 🛢, 🛡, 🔀
- Did a presentation on containers 🐳 that run on Linux 🐧
- Completed multiple NICE challenges, involving Linux 🐧, terminal >_, and simple database 🛢 management. Wrote 5 Writeups to assist my teammates.

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
- 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
- Worked towards packaging Kasmvnc and OpenStack ☁ via Nix
- Deployed a point to site Wireguard VPN connection between my router and a VPS
- Installed OpenStack on Rocky ☁ Linux 🐧 using Kolla-Ansible

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, things I did first to things I did most recently.

- Palomar Community College
  - Intro to OS/Hardware Fundamentals (CSNT 110)
- Graduated from Del Norte High School
  - AP Calculus AB
  - AP Computer Science Principles (AP CSP) 🐍
- 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 (CALC150B)