Jeffrey Fonseca — Resume

Contact me

Email: jeff.fonseca777@gmail.com

Summary

Avid user of Linux and related technologies for 5 years, intimately familiar with them through personal projects and daily usage. See my blog

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: https://github.com/moonpiedumplings/proxmox-maas/
- Configured K3's kubernetes, vcluster, and kata-containers on nvidia gpu's for machine learning operations: see the relevant docs I made
- Assisted in building physical servers, including doing things like installing storage, or Nvidia GPU's.

Waking Up on the Toilet
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

Layer8 Club at Cal State Northridge
Date: Fall 2023 to Ongoing
CSUN competes in a cybersecurity competition called CCDC. Links here. Some of the work here is for that.

- Automated many mundane linux tasks using ansible View relevant commit history. View linux roles, most of which is my work
- Did a presentation on containers that run on linux.
- Created a guide for reproducible development and testing environments on various host operating systems, using Nix and Vagrant

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 EC2 VPS, for a class project for AP CSP
- Dockerized Node.js and Python applications
- Used the Nix package manager to distribute packages and applications to students in AP CSP
- Wrote technical documentation to assist students and teachers in AP CSP (For example: a short guide on duckdns)
- Deployed and documented the deployment of Kasmweb: see relevant blog post
- Attempted to package Kasmvnc and OpenStack using Nix. Both are in the projects section of my blog
- Deployed a point to site wireguard connection between my router and a vps: see relevant blog post
- Attempted to install OpenStack on my Rocky Linux home server, using kolla-ansible, in such a manner that a server confined to a private LAN can host virtual machines with public ipv6 addresses, from my VPS: see relevant blog post

Current personal projects can be found on my blog, where I document my processes 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.

- Digital Media Academy
  - Computer Science with Java
  - Cybersecurity and Ethical Hacking
  - Intro to AI and Machine Learning

- Palomar Community College
  - CSINT 110 — Intro to OS/Hardware Fundamentals

- Graduated from Del Norte High School
  - AP Calculus AB
  - AP Computer Science Principles (AP CSP)