

Jeffrey Fonseca — Resume

Contact me

Email: jeff.fonseca777 [at] gmail.com

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'm currently a freshman at Cal State Northridge, and I am searching for a summer internship.

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.
-

WUOTT — Behavioral 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 7 Windows devices remotely
-

Independent Organizations

Layer8 Club at Cal State Northridge

Date: Fall 2023 to Ongoing

CSUN competes in a cybersecurity competition called [CCDC](#). Much 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](#)
 - Introduced and taught people Linux, concepts, and related software
-

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](#)
 - Worked towards [packaging KasmVNC](#) and [OpenStack](#) using Nix.
 - [Deployed a point to site wireguard connection between my router and a vps](#)
 - [Installed Openstack on my Rocky Linux using Kolla-Ansible](#)
-

Education

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

Complete

- 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)

Ongoing

- Cal State Northridge Computer Science BS — expected graduation 05/27
 - Introduction to Algorithms and Programming (COMP 110)
 - Calculus 2 (CALC150B)