

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 — Behavioral 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
- Managed a Wordpress site
- Managed an email server

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 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)
- Deployed [Incus \(Proxmox/ESXi alternative\)](#) with Single Sign on and Fine Grained Authentication to control what resources invited users had access to

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)