

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 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

Independent Organizations

Vice Present 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 on Linux
- Designed a reproducible development environment for Linux 🐧, Windows 🖥️, and Mac 🍏 using Nix ❄️
- Introduced and taught people Linux 🐧, concepts, and related software 🐳, >_, 📄, 🗄️, 🍷, 🧠, 🖥️
- Did presentations on Quarto, Github Pages, and Ansible
- 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
- 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
- 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
- Deployed a Kubernetes cluster using GitOps and fluxcd

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.

- 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 (CALC 150B)
 - ☐ Computer Architecture (COMP 122)
 - ☐ Discrete Structures (COMP 256)