

# 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.

## Professional Experience

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### 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.
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### 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
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## Independent Organizations

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### 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
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## Personal/Educational Projects

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- 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](#)
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## 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
  - CSNT 110 — Intro to OS/Hardware Fundamentals
- Graduated from Del Norte High School
  - AP Calculus AB
  - AP Computer Science Principles (AP CSP)