

Jeffrey Fonseca — Resume

jeff.fonseca777 [at] gmail.com
Github : moon pied dumplings • Website: moon pied dumplings.github.io

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: moon pied dumplings.github.io

Professional Experience

In remain, however, largely unknown. In this sense, studies have suggested that the cooking of food could be a pre-requisite for the expansion of brain size in early hominins. However, this appealing hypothesis is only supported by a mathematical model suggesting that the increasing number of neurons in the brain would constrain body size among primates due to a limited amount of calories obtained from diets. Here, we show, by using a similar mathematical model, that a tradeoff between body mass and the number of brain neurons imposed by dietary constraints during hominin evolution is unlikely. Instead, the predictable number of neurons in the hominin brain varies

Cirrascale Cloud

Date: 7/10/2023 - 8/26/2023

Intern

San Diego, California

- 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
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WUOTT — Behavioral Health Clinic

Date: 2016 - 2022

Helpdesk

San Diego, California

- Deployed Meshcentral to manage a fleet of 7 devices and troubleshoot them remotely
 - Managed a wordpress site
 - Managed an email server
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Independent Organizations

Layer 8 Cybersecurity Club

Date: Fall 2023 to Ongoing

President

- 26 users taking advantage of services deployed and maintained using Kubernetes and GitOps.
 - Deployed Incus to offer VM's
 - Used Single Sign on and Fine Grained Authentication to control access and authorization
 - Used Coder on Kubernetes to offer Kali Linux VDI
 - Organized weekly meetings, workshops, and lectures for members
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Collegiate Cyber Defense Competition Team Captain

- Actively defended 30 machines, in order to keep an environment online against professional red teamers
 - Massively improved scores, taking us from
 - Used Ansible and Python to automate security and incident response tasks on Linux and Windows devices
 - Led a team of 8 people to regionals, placing in the 8 among 20 other Southern California collegiate teams
 - Developed a reproducible Linux environment using Nix
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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)
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Education

- 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)