

Jacob Coffee

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EXPERIENCE

Senior Linux Systems Administrator

Feb 2022 – Present

O'Reilly Auto Parts

Remote

- Managed petabyte-scale storage systems and computational infrastructure effectively, ensuring seamless operations
- Introduced users to the concept of code reviews via pull requests, code formatting, linting, and testing
- Maintained distributed systems using Ansible and Terraform, enhancing system reliability and efficiency
- Supported Ubuntu/RHEL servers using VMware, Containers, and IaC, resulting in optimized server performance

IT Specialist

Mar 2018 – Feb 2022

Labcorp

Remote

- Automated routine tasks using Python, Powershell, and Ansible reducing downtime
- Devised unique solutions for new clients, increasing revenue
- Instituted new Active Directory GPO structure facilitating automation
- Deployed and maintained Linux servers and Docker containers
- Managed networks via Cisco ISE, Infoblox IPAM, Velocloud Orchestrator, and Meraki dashboard

PROJECTS

Internal Apps | *Highly-available APIs used by 1000+ users*

2022 – Present

- Architected a highly available internal store API and corresponding frontend
- Architected and introduced a new platform for developers to request, deploy, and manage their test environments
- This platform included the use of ETL pipelines, database management, systems patch management, and self-serve
- Reduced user friction with various systems by developing ChatOps interfaces and automation
- Introduced resiliency for applications by deploying load balancing and versioned multi-container deployments

Homelab | *vSphere, Active Directory, Linux, Docker, Azure*

May 2018 – Present

- Built and maintained systems for learning purposes
- Engineered systems around hardware constraints in an 8 node cluster
- Implemented Docker containerization with source-controlled configuration deployed with GitOps
- Built complex networks with multiple VLANs for service segmentation, multi-user VPN, and IDS/IPS services
- Automated deployments using Powershell, Bash, Ansible, and Terraform

Order Management System | *Pathologists' web app for test ordering*

Jan 2022 – Feb 2022

- Deployed multi-environment Flask web app using Docker
- Incorporated LDAP, OAuth authentication, and tiered permissions
- Engineered scalable deployment with NGINX, Gunicorn, and Docker
- Implemented Bootstrap and Jinja2 for dynamic data and UI updates
- Built complex databases with PostgreSQL for order data and permissions
- Developing a reporting dashboard for national teams

TECHNICAL SKILLS

Languages: Python, Bash, Java, Powershell

Frameworks: Litestar, Django, Flask, Jinja2, OAuth, PostgreSQL

Tools: Git, Docker, LXD/LXC, NGINX, Ansible, Azure, Prometheus, Grafana, Zabbix, OpenTelemetry

Operating Systems: Windows Server 2012-2022, Ubuntu Server, Red Hat Server (RHEL/CentOS/Rocky Linux)

Software: JetBrains Tools, VMware vSphere, ESXi, Proxmox, Hyper-V, GPO, ServiceNow, SCCM, Citrix

Currently Learning: Kubernetes, Rancher (Harvester, k3s) Jenkins, Terraform, Rust

OPEN SOURCE

Litestar | *Maintainer - Asynchronous Python Framework for building APIs and Web Apps*

2023 – Present

- Maintain and contribute to the codebase for the open-source project Litestar; downloaded 1 million times / month
- Collaborate with other project maintainers to drive the project roadmap and features
- Maintain Polyfactory (mock data gen. downloaded 2m/month) and Advanced Alchemy (SQLAlchemy helper)
- Implemented new features and optimizations to improve the core framework's performance and capabilities
- Actively participate in the project's community, providing assistance and guidance
- Prioritize workload including business and sponsor application requirements, bug fixes, etc.