Jacob Coffee

jacob@scriptr.dev | linkedin.com/in/JacobCoffee | github.com/JacobCoffee | www.scriptr.dev

EXPERIENCE

Infrastructure Engineer — July 2024 – Present
Python Software Foundation — *Remote*
- Managed infrastructure for PyPI.org and others, serving 9 petabytes/month and over 5 billion daily requests
- Collaborated and led initiatives in developer tooling, CPython runtimes, and other third-party vendor software
- Deployed observability with Kubernetes clusters used throughout the organization and CPython core team
- Managed essential libraries, ensuring safe dependency management and minimal issues in the build system and CI.
- Developed multi-platform Typescript and Python applications consumed by thousands of on-site users
- Volunteered as a CPython triage team member, focusing on infrastructure and JIT compiler work

Systems Engineer — Feb 2022 – July 2024
O'Reilly Auto Parts — *Remote*
- Managed petabyte-scale storage systems and computational infrastructure effectively, ensuring seamless operations
- Architected full-stack applications serving the development teams, increasing efficiency and reducing regressions
- 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
- Developed Flask dashboard application for Pathologists, reducing patient specimen redraw, increasing efficiency
- 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
- Developed and onboarded 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

TECHNICAL SKILLS

Languages: Python, Bash, Powershell, SQL
Frameworks: Litestar, Django, Flask, FastAPI, Jinja2, OAuth, PostgreSQL
Tools: Git, Docker, LXD/LXC, NGINX, Ansible, Salt, AWS, Azure, Prometheus, Grafana, Zabbix, OpenTelemetry, DigitalOcean, Fastly, Sentry, PagerDuty, Terraform, Kubernetes
OS: Windows Server 2012-2022, Ubuntu Server 12.04-24.04, Red Hat Server (RHEL/CentOS/Rocky Linux)
Software: Jetbrains Tools, VMWare vSphere, ESXi, Proxmox, Hyper-V, GPO, ServiceNow, SCCM, Citrix
Currently Learning: Rust, React Native

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.