

Jacob Coffee

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EDUCATION

Auburn University

Bachelor of Computer Science

Auburn, AL

May 2024 (Expected)

Wallace State Community College

Associate of Science in Computer Science

Hanceville, AL

May 2022 (Expected)

EXPERIENCE

Senior Linux Systems Administrator - Retail DevOps and Hardware

Feb 2022 – Present

O'Reilly Auto Parts

Remote

- Linux Systems administration of multiple petabyte-scale storage systems and computational infrastructure at scale
- Responsible for maintaining tens of thousands of servers between live production and test systems
- Support thousands of production Ubuntu servers with VMware vSphere, vSAN, Tanzu, Docker, and IaC
- Toolset: Python, Bash, MySQL, NoSQL, PostgreSQL, Terraform, Ansible, Vagrant, Agile, Atlassian, Jenkins

IT Specialist - IT Infrastructure and Business Continuity

Mar 2018 – Feb 2022

Labcorp

Remote

- Developed automation with Python, Powershell, and Ansible for issues and tasks resulting in less downtime
- Planned, led, and deployed unique solutions for new clients resulting in millions in revenue gain
- Implemented new active directory GPO structure allowing for endpoint deployment automation
- Supported Windows Servers (2012-2019), Networks, Active Directory, Group Policy, and end-user computers
- Deployed and maintained Linux servers and Docker containers, respectively
- Managed networks using tools like Cisco ISE, Infoblox IPAM, Velocloud Orchestrator, and the Meraki dashboard

PROJECTS

Xpress Order Management | Web app for pathologists across the nation to order tests

January 2022 – Present

- Developed and deployed multi-environment (Dev/QA/Prod) Flask web app
- Integrated LDAP and OAuth authentication, registration, tiered permissions, and password reset
- Implemented scalable deployment with NGINX, Gunicorn, and Docker
- Utilized Bootstrap along with Jinja2 to dynamically update the data and UI
- Designed complex databases with SQLite, PostgreSQL, order data, and permissions
- Building reporting dashboard for national teams to understand their workloads, business cost, and patient data

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

May 2018 – Present

- Designed, deployed, and maintained production-level systems solely for the purpose of learning more about them
- Designed systems around hardware constraints (Dell R510, R620, R430s) in a highly available 8 node cluster utilizing vSphere, IPMI, Reverse Proxy with NGINX, and container deployment and management
- Implemented Docker containerization for individual services with source-controlled configuration
- Designed networks with multiple VLANs for segmentation of services such as IoT, Servers, End Users, and Security
- Automated various deployments using Powershell, Bash, Ansible, and Terraform

TECHNICAL SKILLS

Languages: Java, Python, Bash, Powershell

Frameworks / Tech: Django, FastAPI, Flask, Jinja2, OAuth, PostgreSQL, NGINX

Other Tools: Git, Docker, Ansible, Azure, AWS

OS: Windows Server 2012-2022, Ubuntu Server, Red Hat Server (RHEL)

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

Things I'm Currently Learning: Kubernetes, Rancher, Jenkins, Terraform

CLUBS AND ORGANIZATIONS

School Clubs: Auburn AI Club, Auburn Ethical Hacking Club, Auburn ACM Group

Industry Organizations: ACM, IEEE