

# Jacob Coffee

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## EDUCATION

### Auburn University

*Bachelor of Computer Science*

Auburn, AL

*May 2026 (Expected)*

### Wallace State Community College

*Associate of Science in Computer Science*

Hanceville, AL

*May 2023 (Expected)*

## EXPERIENCE

### Senior Linux Systems Administrator - Retail DevOps and Hardware

Feb 2022 – Present

*O'Reilly Auto Parts*

*Remote*

- Administered multiple petabyte-scale storage systems and computational infrastructure at scale
- Maintained large-scale distributed systems between using Ansible and Terraform
- Creating a query system using Starlite API to allow business users to query Zabbix aggregate data for 14,000 hosts
- Support production Ubuntu/RHEL servers with VMware vSphere, vSAN, Containers, and IaC
- Stack: Python, Django, FastAPI, Bash, MySQL, 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, Starlite, Flask, Jinja2, OAuth, PostgreSQL

**Other Tools:** Git, Docker, LXD/LXC, NGINX, Ansible, Azure, AWS

**OS:** 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

**Things I'm Currently Learning:** Kubernetes, Rancher (Harvester, k3s) Jenkins, Terraform, Rust

## CLUBS AND ORGANIZATIONS

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

**Industry Organizations:** ACM, IEEE