Jacob Coffee

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EDUCATION

Auburn University	Auburn, AL
Bachelor of Computer Science	*May 2024 (Expected)*
Wallace State Community College	Hanceville, AL
Associate of Science in Computer Science	*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, PostreSQL, 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 constrains (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