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Summary _

RHCSA-certified SysAdmin specializing in provisioning and automating Linux environments for data science and ML workflows. Used Ansible and Docker Compose for reproducible single-server deployments. Built custom tools in Python, Go, and Bash for ETL and automation.

Key Skills _____

Operating Systems: Red Hat Enterprise Linux (RHEL), CentOS, Ubuntu.

Scripting: Python, Golang, Bash.

Configuration & Automation: Docker, Ansible, CI/CD, Github Actions.

Security & Networking: SELinux, firewalld, SSH, NFS, DNS.

Project Management & Collaboration: Jira.

Certifications _____

Red Hat, Red Hat Certified System Administrator (RHCSA)

Apr 2025

AWS, Certified Solutions Architect

In-progress

Professional Experience _____

Linux System Administrator & Data Engineer. University of British Columbia — Remote | Nov 2022 - Present.

- Managed Linux-based environments for data processing and AI workloads on HPC systems.
- Streamlined provisioning of Linux dev environments with Ansible and Docker Compose, reducing provisioning times 90%.
- Managed research team's Python virtual environments and userspace on a SLURM cluster, ensuring consistent dependencies and job execution.
- Engineered Python and Golang automation tools for ETL and data-ingestion pipelines, reducing manual scripting effort and accelerating onboarding of new datasets.
- Automated backups of research directories and environment configurations with custom Golang and Python scripts.

Linux System Administrator & Python Developer. Freelance — Remote | Dec 2021 - Present.

- Deployed and maintained Linux servers for small businesses (e.g. German Education Partners, Onlinin) and research labs (e.g. at UBC Sauder School of Business), including user/group management, system updates, and firewall configuration.
- Debugged and refactored inefficient or broken Python/Bash scripts submitted by clients (e.g. UAB Decentralized (CoinGate)).
- Automated routine maintenance tasks (backups, package updates, user management) with Bash scripts, eliminating manual intervention and standardizing processes.

- Documented infrastructure configurations, enabling clients to manage and extend their environments independently.
- Provided SSH support and Linux usage training to non-technical users.
- Created custom Python applications for data processing, automation, and analysis (e.g., notification systems connected to data pipelines).
- Designed and implemented data pipelines for efficient ingestion, transformation, and reporting, including pipelines interacting with undocumented APIs.

Selected Projects _____

Homelab Automation with Ansible and Terraform

- Provisions a dedicated homelab server with Ansible.
- Configures VNC server, NFS exports, and firewall rules with Ansible playbooks.
- Uses Terraform to deploy and manage Docker containers.

Personal Website

- Available at: https://onurhanak.com
- Containerized the application with Docker and deployed to AWS EC2 using Terraform and Ansible.
- Configured Nginx as a reverse proxy with HTTPS via Let's Encrypt (Certbot) and automated certificate renewal.
- Hardened the server with UFW, SSH key-based access, and minimal open ports.

Education		
PhD	Queen's University, Sociology	Jan 2025
MS	METU, Sociology	Jun 2019
BS	METU, Sociology	Jun 2017