

SUMMARY

Infrastructure Engineer specializing in **Linux-based production systems for high-stakes environments**, with 10+ years of experience across financial platforms, safety-critical transportation systems, and distributed application infrastructures. Expertise in **automation, system reliability, and performance optimization**, with deep hands-on experience operating Kubernetes/OpenShift platforms and hybrid cloud environments.

Recognized for improving **system availability, scalability, and operational efficiency** through automation, observability, and infrastructure design. Brings a strong foundation in **real-time and data-intensive systems**, with growing focus on high-performance compute and data-driven operations.

WORK EXPERIENCE

MORGAN STANLEY 2022-06 - NOW

Infrastructure Engineer - Unix/DevOps engineering.

- Led Unix engineering initiatives within Firmwide Innovation Labs, focusing on **automation, system reliability, and self-service infrastructure** in Linux-based environments
- Designed and implemented **automated provisioning workflows for virtual machines and bare-metal servers** using Ansible, significantly reducing manual effort and improving deployment speed
- Developed infrastructure automation leveraging **Python, Ansible, Dell OpenManage, and Redfish APIs** to support scalable, repeatable system builds
- **Onboarded and integrated GPU-enabled servers** into the lab environment, enabling support for **high-performance and data-intensive workloads**, including AI/ML experimentation and compute acceleration
- Administered and supported **mission-critical Linux systems (RHEL)**, including configuration management, patching, and performance optimization across compute, storage, and network layers
- Contributed to **production stability** through troubleshooting, incident response, and root cause analysis in complex distributed environments
- Collaborated with developers and platform engineers to design and maintain **resilient, highly available infrastructure** aligned with DevOps and operational best practices
- Supported **hybrid environments** including Kubernetes clusters, AWS cloud infrastructure, and on-premise systems, ensuring seamless integration and operational consistency
- Enhanced **observability and operational efficiency** through automation, monitoring, and logging improvements across distributed systems
- Contributed to the operation of **data-intensive platforms (Hadoop, Dataiku)**, supporting large-scale processing workloads and system performance
- Enforced **data protection controls** through disk encryption and centralized key management (EKMS), ensuring compliance in regulated environments
- Led **end-of-life system decommissioning**, including secure data destruction and audit-compliant processes for infrastructure lifecycle management

LOTO QUEBEC 2021-09 - 06-2022

DevOps / Middleware Engineer - Cofomo Consultant

- Defined and implemented a **DevOps framework** to support middleware governance, improving operational efficiency and standardizing infrastructure and deployment practices
- Migrated containerized applications to **OpenShift/Kubernetes**, enhancing scalability, resiliency, and system performance in distributed environments
- Established **standards, processes, and tooling** to enable consistent and reliable DevOps practices across multiple applications and teams
- Implemented **proactive monitoring and observability solutions** using Prometheus and Grafana, improving system visibility and reducing incident response time

- Managed and supported **middleware platforms (JBoss, ActiveMQ, Spring Boot)**, ensuring high availability, performance, and seamless integration across services
- Automated deployment and infrastructure workflows using tools such as **Ansible, Terraform, Jenkins, GitLab, and Nexus**, reducing manual operations and improving release reliability
- Contributed to **system stability and performance optimization** in production environments through monitoring, troubleshooting, and continuous improvement initiatives

CANADIAN NATIONAL
RAILWAY
2019-09 - 2021-09

PTC Systems – Linux Infrastructure Engineer (Safety-Critical Systems)

- Administered and maintained **Red Hat Enterprise Linux systems** supporting **safety-critical Positive Train Control (PTC) infrastructure**, ensuring continuous operation of mission-critical middleware systems
- Automated system deployment and operational workflows using **Ansible, Python, Bash, Docker, and Jenkins**, improving consistency, efficiency, and reliability across environments
- Deployed and managed **middleware platforms** enabling real-time locomotive control systems, ensuring high availability and adherence to strict operational and safety requirements
- Implemented **monitoring and observability solutions** using Grafana, Prometheus, and ELK stack, enhancing system visibility and enabling proactive detection of performance issues
- Contributed to the **containerization of critical applications**, supporting scalability, standardization, and improved deployment practices
- Supported **system performance and reliability** through monitoring, troubleshooting, and continuous improvement of infrastructure components
- Operated within a **highly regulated, safety-critical environment**, contributing to systems designed to prevent train collisions, derailments, and unauthorized track access

NATIONAL BANK OF
CANADA
2018-07 - 2019-07

Platform Engineering - Containerization.

- Designed and implemented **continuous delivery pipelines** using IBM UrbanCode Deploy, enabling reliable orchestration of application deployments across distributed environments
- Developed and optimized **containerization strategies using Docker**, improving scalability, portability, and consistency of application workloads
- Deployed and managed containerized applications on **Kubernetes clusters**, enhancing resource utilization, system performance, and operational resilience
- Built and maintained **end-to-end CI/CD workflows** integrating Git/Bitbucket, Jenkins, Maven, and Nexus to streamline software delivery and reduce release cycle time
- Collaborated with development and operations teams to ensure **seamless integration and stable delivery of application releases** in production environments
- Contributed to **system reliability and deployment consistency** by standardizing processes and improving automation across the software delivery lifecycle
- Produced and maintained **technical documentation** for CI/CD pipelines and deployment processes, ensuring knowledge transfer and operational consistency

BARA TECHNOLOGIES,
MONTREAL, CA
2017-12 - 2018-05

Platform Engineer - Redhat OpenShift Administrator

- Installed, configured, and maintained **Red Hat Enterprise Linux environments** supporting **OpenShift (Kubernetes) PaaS platforms**, ensuring high availability, performance, and system reliability
- Managed and troubleshooted **OpenShift/Kubernetes components** (pods, services, deployments, routes), ensuring stable and efficient application lifecycle operations
- Administered **cluster infrastructure**, including master and worker nodes, routers, and container registries, maintaining platform stability and service continuity
- Optimized system performance and resource utilization through **cluster scaling, node management, and cleanup of container workloads**
- Configured and maintained **KVM-based virtualization environments** to support scalable and resilient OpenShift cluster deployments
- Automated **application deployment pipelines** using Kubernetes and Jenkins integrated with GitHub, enabling consistent and reliable continuous delivery workflows
- Leveraged **AWS EC2 infrastructure** to support scalable and flexible platform environments aligned with application and operational requirement
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Systems & Applications Engineer

- Developed **client-server applications** to improve access to digital library resources, enabling both on-site and remote usage
- Led IT initiatives to expand **online service availability**, ensuring reliable and continuous access to resources
- Built and maintained **virtualized environments (VMware)** supporting web servers, PostgreSQL/MySQL databases, and application servers (Tomcat)
- Administered **Linux systems**, including installation, configuration, performance tuning, and security management
- Managed **network infrastructure**, ensuring system health, performance optimization, and compliance with security standards
- Implemented and configured core services such as **LDAP directories and web hosting platforms (cPanel)** to improve resource management and accessibility

EDUCATION

UNIVERSITÉ DU
BURUNDI
2012-01

Bachelor's degree
2012-01 Bachelor's degree
Université du Burundi

SKILLS

OBSERVABILITY	Prometheus, Influxdb,Grafana,Splunk,ELK stack.	AUTOMATION AND CONFIGURATION MANAGEMENT	Ansible, Terraform
CONTAINER ORCHESTRATION:.	Kubernetes, OpenShift,Docker, Podman	RELATIONAL DATABASE MANAGEMENT	MariaDB, PostgreSQL
PROGRAMMING LANGUAGE	Python, Hands-On Java	PROGRAMMING: CONTINUOUS INTEGRATION/DELIVERY	Jenkins, Nexus, Gitlab for CI/CD, IBM Urbancode
UNIX AND LINUX: LINUX	RedHat, CentOS, Alma Linux, Ubuntu	CLOUD COMPUTING: AMAZON ELASTIC COMPUTE CLOUD	Hands on Experience with GCP,AWS

QUALIFICATIONS

- Skills
- Information System Administration
- Linux-Based OS: Redhat, Centos, Fedora, Ubuntu, Debian
- Windows Based OS: Windows Server 2008 R2
- Cloud Computing:
- Google Cloud Platform: GKE, Compute Engine, VPC
- AWS: VPC, EC2, S3, Lambda functions
- DevOps
- Automation and configuration: Ansible, python, bash, Terraform
- Cloud-Native technologies: Docker, Podman, Kubernetes, Openshift
- CI/CD: IBM Urbancode Deploy, Jenkins, Git(Bitbucket,GitLab, GitHub), Maven
- Agile Methodology
- Repositories: Nexus, Harbour, Artifactory
- Web development
- Hands-on experience with Python Flask

Certifications education-related

Pune college of engineering Modern Information Management for Academic Research and Education Oriented Libraries (With Open Source Tools)

Certificate - Management of Electronic Information and Digital Libraries

Antwerp University

Training to the new digital and electronic library technologies to manage modern library technologies which can effectively support development in science, culture, and technology. Emphasis is given to affordable electronic information resources and locally produced digital libraries: libraries and/or/on/for the web.

LANGUAGES

FRENCH



ENGLISH



CERTIFICATION

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- Lib@Web: Management of Electronic Information and Digital
- Google Cloud Architect (Linux Academy)
- Introduction to Python Development
- Ansible Challenge
- Library