

Aliaksei Sheshka
NRE, SRE, infrastructure, networking
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Montreal, Canada

Skills

- Cloud:
 - KVM, containers, podman, docker
 - Kubernetes: k8s, k3s, Helm
 - Infrastructure automation: cfengine, terraform
 - Time series, Graphouse, Graphite, Grafana
 - Log analysis: Fluent Bit, Graylog, Elasticsearch ELK, Kibana
 - S3, MinIO and other object storages
 - GitLab CI/CD, GitHub Action
 - AWS, Digital Ocean, GCP
 - Deckhouse
- Programming:
 - Go (Golang), python, C++, C, shell, awk
 - netconf, restconf, gNMI, gRPC
 - Network programming, concurrent programming
- Unix:
 - Linux — all major distributions (Debian, CentOS, Ubuntu, RHEL) + FreeBSD, OpenBSD
 - SQL databases: PostgreSQL, MySQL/MariaDB, SQLite, ClickHouse
 - DNS, DNSSEC
 - OS security, optimization, troubleshooting, custom install images, remote deployment
 - all classic daemons: ssh, ftp, dhcp, nginx, smtp, imap and so on
- Networking:
 - Network engineering / operations / automation, NFV, Internet peering
 - Muti-terabit scale network deployments Cisco, Juniper, Mellanox, Cumulus, DriveNets
 - Routing protocols: BGP, IS-IS
 - MPLS, SPRING / Segment Routing, QoS
 - Routing security, RPKI
 - Arbor, Kentik, NetFlow/sFlow solutions
 - DDoS mitigation
 - AAA, TACACS+, TOTP and related services
 - firewalls, including iptables, nftables, ipf, ipfw
 - Network management systems: Zabbix, Cacti, Nagios/Icinga; SNMP
 - policy development, IPAM

Certifications

- CKA, Certified Kubernetes Administrator
- CCNP, Cisco Certified Network Professional

Work Experience

- **Tata Communications, AS6453, AS4755** Montreal, Canada
July 2009 - present
 - Senior Infrastructure Automation Developer
 - Network and systems management, engineering and automation
 - Go, python, C++ programming
 - Cisco, Juniper, Mellanox, Cumulus, DriveNets
 - SLA / KPI infrastructure development
 - Network / system programming and automation, netconf
 - on-premise Kubernetes, object storages, CDN
 - Virtualization / containerization (podman, docker etc)
 - Network policies development
 - Development and maintenance of a backbone management software (ACL, BGP filters, communities, etc)
 - DDoS mitigation (Arbor and in-house solutions)
 - AAA services
 - IP address management software development
 - Development and management of an anycast DNS infrastructure (both IPv4 and IPv6)
 - Development of various network monitoring plugins both for open source and proprietary platforms
 - Advanced log processing platforms
- **Bell Mobility** Montreal, Canada
Feb. 2009 - July 2009
 - Unix Administrator
 - Implementation of HA RADIUS servers infrastructure
 - Oracle DB administration
 - Deployment of a DIAMETER infrastructure for 3G/4G mobile networks
 - Solaris administration
 - Scripts development (Perl)
- **Gameloft** Montreal, Canada
Feb. 2008 - Nov. 2008
 - Network/Security Administrator
 - Implementation of a high available IPsec VPNs around the World
 - Implementation of a high availability for content delivery system
 - Deployment of a auto-provisioning infrastructure for OpenBSD servers
- **Caxem** Montreal, Canada
Dec. 2007 - Feb. 2008
 - System Administrator
 - Firewalls administration

- Release management automation
- DB administration, migration and conversion in multi-vendor SQL environment
- Deployment of a high available infrastructure for content delivery

- **HSP Extmedia**

Minsk, Belarus

- *System Administrator*

Jan. 2004 - Dec. 2007

- Development, deployment and management of HSP infrastructure
- Network monitoring
- Remote System Administration and Security of Unix and Windows based systems
- Development of custom monitoring scripts (shell, ruby, python)
- Improvement of open source software, adding features requested by customer
- Deployment of a various virtualization solutions