

Aliaksei Sheshka
NRE, SRE, infrastructure, networking
stateful@gmx.com

Montreal, Canada

Skills

- Infrastructure automation
- Programming languages including Go (Golang), python, C++, C, shell, awk
- Network programming, concurrent programming
- netconf, restconf, gNMI, gRPC
- IP SLA software development
- Linux — all major distributions (Debian, CentOS, Ubuntu, RHEL) + FreeBSD, OpenBSD
- OS security, optimization, troubleshooting, custom install images, remote deployment
- KVM, containers, podman, docker, on-premise Kubernetes
- DDoS mitigation
- Network engineering / operations / automation
- LAN, WAN; routers, switches including Cisco, Juniper and other vendors
- Routing protocols: BGP, IS-IS
- MPLS, SPRING / Segment Routing, QoS
- Internet security, RPKI, vulnerability analysis
- firewall configuration including iptables, nftables, ipf, ipfw, Cisco/Juniper/Huawei
- NMS - Zabbix, Cacti, Nagios/Icinga; SNMP
- Arbor, Kentik and other NetFlow/sFlow solutions
- AAA, TACACS+, TOTP and related services
- Network operations automation
- LAMP, MEAN and other stacks
- SQL databases: PostgreSQL, SQLite, Graphite, ClickHouse
- Time series, Graphouse, Graphite, Grafana
- Log analysis: Graylog, Elasticsearch ELK, Kibana
- Automation/orchestration: cfengine, terraform
- DNS, DNSSEC
- Internet peering
- IPAM

Work Experience

- **AS6453 Tata Communications** Montreal, Canada
July 2009 - present
 - Senior Network Automation Developer
 - Network management, engineering and automation. Cisco, Juniper, Huawei
 - Go, python, C++ programming
 - SLA / KPI infrastructure development
 - Network / system programming and automation, netconf
 - Network anomaly detection
 - Servers - all major Linux distributions
 - Development and maintenance of a backbone management software (ACL, BGP filters, communities, etc)
 - DDoS mitigation (Arbor and in-house solutions)
 - AAA services
 - Development and deployment of an anycast DNS infrastructure (both IPv4 and IPv6)
 - Development of various network monitoring plugins both for open source and proprietary platforms
 - Advance log processing platforms
 - Virtualization / containerization (podman, docker, zones, etc)
- **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
Jan. 2004 - Dec. 2007
 - System Administrator
 - 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