Mars Toktonaliev

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Senior technology professional with 19 years of telecommunications industry experience that includes expertise in virtualization, containers and Openstack. CNCF ambassador and CKAD/KCNA/PCA exams co-author.

EXPERIENCE

KGPCo - Irving, TX   Oct 2019 - present

Senior System Engineer, Solution Innovation Center

Engineering lead for Edge Cloud and uCPE (universal Customer Premises Equipment) related tasks:
- Reduced whitebox switches pre-production integration time by ~25%.
- VNF (Virtual Network Function) deployment, integration and validation, including demos and Proof of Concepts.
- Platform performance benchmarking + SIC lab monitoring infrastructure (Prometheus, Grafana, LibreNMS etc)

Reduced whitebox switches pre-production integration time by ~25%.

Nokia - Multiple locations   2007 - Oct 2019

5G Cloud RAN System Engineer, Nokia Networks - Irving, TX (Feb 2017 – Oct 2019)

Work in the cloudRAN team to supervise and support cloud-based projects and contribute to the AT&T Edge Cloud initiative to ensure 5G deployments to AT&T cloud.
- Performed tasks associated with the Open Network Automation Platform (ONAP) including installation, troubleshooting, trainings, and Nokia VNF onboarding assistance. Successfully deployed the first full ONAP solution in Nokia NAM and onboarded 5G CloudBTS on top of it.
- Member of 5G CloudBTS containerization R&D team. Successfully made the first 5G call on a prototype base station SW.

Circuit Switch Core Specialist, Nokia Solutions and Networks - Irving, TX (2011 – Feb 2017)

Member of ten-person Shared Reference Network team supporting global business units in the operation, maintenance, upgrades, and troubleshooting of circuit switch core lab equipment (MSS, MGW, TAS, BGW, etc).
- Served as SRN lab's subject-matter expert on virtualization, VMware, and Openstack. Increased percentage of virtual network elements in local lab from 28% to 76% in three years, which was shared with other SRN lab locations. Supervised installation, deployment, and troubleshooting of over 100 Openstack clouds over several years.
- Managed multiple Virtual ATCA (vATCA) network elements including vMME, vTAS, and vHLR.

Technical Support Engineer, Nokia Siemens Networks - Budapest, Hungary (2008 - 2011)
- Provided Tier 3 technical support for CS core network elements.
- Ensured that patches contained in change delivery files were successfully installed and features worked as intended before sending software to customers.

Circuit Switch Core Engineer, Nokia Siemens Networks - Bishkek, Kyrgyzstan (2007 - 2008)
- Provided Tier 1 technical support for CS core network elements.
- Performed installations, commissioning, integrations, and upgrades of networks.

National Communications Agency - Bishkek, Kyrgyzstan   2003 - 2007

Engineer
- Performed electromagnetic compatibility analysis in terrestrial and land mobile services.
- Developed applications and tools for computer-based EMC analysis using Object Pascal and SQL.

OPEN SOURCE & COMMUNITY WORK

- Contributor to OPNFV (Open Platform for Network Function Virtualization) vsperf (virtual switch performance) project
- Openstack Upstream Institute - Volunteer and organize training for Openstack Summit conference participants.
- Dallas Kubernetes meetup group founder and co-organizer.
- KubeCon track chair (EU21, NA22) and Program Committee member (EU20, NA20, EU21, NA21, EU22, NA22 etc)
- Kubernetes on the Edge Day Program Committee member (EU20, EU22, NA22)
- KCNA, CKAD, PCA and CNTD (soon to be launched) exams developer.

EDUCATION

MS, Communication Networks and Switching Systems, Kyrgyz National Technical University - Bishkek, Kyrgyzstan

BS, Communication Networks and Switching Systems,, Kyrgyz National Technical University - Bishkek, Kyrgyzstan