Maxat Abishev

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Summary

Pivoting career towards software development role (web development), open for new opportunities (intern/junior web developer roles).
A certified computer networking expert, with 7+ years of extensive network deployment experience. Also interested in opportunities in network automation, DevOps (NetDevOps).

Core competencies

Good knowledge of GNU/Linux based platforms. Good at analyzing, troubleshooting code in Python, Java, Javascript but not yet claiming to be professional developer. Level is right enough to automate mid to complex tasks (Python, Linux shell). Good understanding of backend/frontend web applications (HTML/CSS, Javascript, HTTP operations), comfortable with Node.js + Express + MongoDB + React.js stack.

Expert level in routing and switching technologies, including MPLS, Segment Routing, OSPF, ISIS, MP-BGP, RSVP, TCP/IP stack, BRAS subscriber management solutions, Radius/Diameter, Mobile Backhaul, CGNAT, Inter-AS, Seamless MPLS, Multicast solutions, synchronization (PTP, SyncE), OAM. Good knowledge of network testing platforms – IXIA, Spirent.

Industry Certifications

CCIEx2 #39099 (RS, SP), JNCIA SP, JNCIS SP

Employment history

Freelance, student — **Toronto, ON** — **Web developer**
August 2018 - current

Pivoting career towards software development role (web development), enrolled in Georgia Tech OMSCS online CS part-time masters degree, starting January 2019.

Github profile: https://github.com/perehodnik

Courses completed:
- The Web Developer Bootcamp (by Colt Steele)
https://www.udemy.com/the-web-developer-bootcamp/
keywords: HTML, CSS, JavaScript, jQuery, NodeJS, Express, HTTP

- The Advanced Web Developer Bootcamp (by Colt Steele)
https://www.udemy.com/the-advanced-web-developer-bootcamp/
keywords: HTML, CSS, JavaScript, jQuery, NodeJS, Express, HTTP, Flexbox, AJAX, JSON API, REDUX, JSX, ES6, JWT

Juniper Networks | **Toronto, ON** | **December 2017 – August 2018** | **Staff Resident Engineer**

Resident engineer/consultant, supporting the core network for Bell Canada and its subsidiary networks for all stages from design validation/testing to production operations.

Juniper Networks | **Amsterdam, Netherlands** | **April 2016 – December 2017** | **Customer focused technical support engineer/Advanced TAC**

The JTAC engineer (MX-series) supporting high end customers including the biggest Service Providers in EMEA. The focal technical support contact, handling high priority issues for a limited number of Advanced Services customers, on Juniper Networks MX-Series. All kinds of core/edge network technologies involved including MPLS, IP, IPv6 , ISIS, OSPF, BGP , RSVP, LDP, multicast, PPP/DHCP/L2TP based subscriber access solutions.
Strong accent on troubleshooting , problem replication in lab (including using IXIA/Spirent) and solving all issues that may occur in the customers' networks.
Scripting is an integral part of a job. Most scripting is done with Shell and Python. A lot of source code analysis is performed (mostly written in C).

JSC "Kazakhtelecom" | **Almaty, Kazakhstan** | **April 2013 – April 2016** | **Head of Broadband services division**

Supervising a team of network engineers responsible for broadband and core network operations and technical support, with a network consisting of:
- Juniper MX, PTX-Series Routers, EX series switches
- Cisco ISR, ASR, CRS series routers; 3500, 6500 series switches

Projects:
- Implemented a country-wide Mobile Backhaul network, 16 large cities,1000+ cell site router nodes, partly on Juniper ACX1100/2100 - MX80 – MX480/960 chain.
- Performed migration from Inter-AS BGP Option B solution on Metro-Backbone area to a seamless-MPLS model (backbone area + 16 Metro areas).
- Performed migration from Cisco CRS-1 based backbone MPLS network to PTX based backbone (IP, VPN, Multicast IPTV services).
- Implemented a country-wide broadband access BNG solution on DHCP model for residential/business customers, 16 large cities, 36 MX480/960 nodes, 350000 users.
- Implemented country-wide CGNAT solution for PPPoE BRAS residential users, with 3 central MX960 nodes serving 300K+ customers with 120G+ traffic.

- Implemented country-wide public WI-FI access network, with 500+ AP's installed public areas, Juniper based solution(3 controllers, monitoring based on RingMaster).
- Implemented services for residential users – BNG-DHCP base "Static IP" for broadband customers, Parental Control.

JSC "Kazakhtelecom" **Almaty, Kazakhstan** **Network Engineer at Core Network Operations Division**
August 2011 – April 2013

- Backbone network operations and technical support

Projects:
- Performed full migration from Redback Systems, Cisco 7200 series PE routers to Juniper MX480/960.
- Performed partial migration from Cisco 6500 series switches to Juniper EX4500 switches.
- Implemented Mobile Backhaul network in 2 cities with 200+ nodes for an emerging LTE operator.
- Implemented IPv6 6PE on the backbone network.

Education

Rochester Institute of Technology, Rochester, New York, 2006-2011
Bachelor of Science, Telecommunications Engineering Technology
Double Major: BS Economics
GPA: 3.9 / 4.0
Honors: RIT scholarship
Alumni Scholarship Recipient - 2007, 2008, 2009, 2010
Dean's list 2006-2011

Almaty University of Telecommunications and Power Engineering, Almaty, Kazakhstan, 2011-2013
Master of Science, Telecommunications Engineering
GPA: 3.8/4.0

Georgia Tech, OMSCS, 2019 - 2022 (planned)
Master of Science candidate, Computer Science

Technical Expertise

Technical expertise:

- Programming/scripting (Python, Java, Java)
- Web development (Node.js, Express, MongoDB, React.js stack, nginx)
- Application deployment concepts (Docker, Kubernetes, Openshift)

- Advanced Routing & Switching (EIGRP, OSPF, ISIS, BGP, IPv6, TCP/IP stack, MPLS, MPLS-TE, Multicast, DHCP, DNS, PPP, L2-tunneling), B-RAS, BNG solutions, Mobile Backhaul, CGNAT, Inter-AS networking, Seamless MPLS, Multicast solutions, Network synchronization solutions (PTP, SyncE), Linux/Unix administration(Bash),
- Juniper MX, PTX-Series Routers, EX series switches, basic Juniper SRC-PE, SBR
- Cisco ISR, ASR, CRS series routers; 3500, 6500 series switches