

Kejia (Kenneth) Shi

Frisco, TX 75033

(469) 388 – 3288 kejia_shi@yahoo.com

Summary

- Strong background in 5G E2E system architecture (SA/NSA, DRAN/CRAN/vRAN, Massive-MIMO, Front/Mid/Backhaul, Mobile Edge Computing, SDN/NFV, xRAN/ORAN, CBRS, AI/SON)
- In-depth knowledge in Cloud and DevOps (AWS, KVM, Docker, Kubernetes, Openstack, Ansible)
- Familiar with industry standards (3GPP, IETF) and open source projects (ONAP, Akraino, ACUMOS)
- Extensive experience in software development and system integration (SDLC, distributed application design and development, SOA, OO design, Java, Unix shell script, Python, PHP, Swift)
- Experience in big data technologies and ML algorithms (Hadoop, Spark, AWS EMR, Random Forests, Neural Networks - ANN/CNN/RNN)
- 20+ years' experience in IP, Telco Protocols, Unix/Linux, Network/security and Database (Oracle certified Solaris system administrator, HP-UX, Redhat, Cisco switch/routers, F5, HA proxy, Oracle/Sybase, Mysql, nosql, wireshark, Apache, nginx, http, smtp, 3GPP, IETF)
- 18+ years' experience in carrier grade OSS/BSS, NMS (Ericsson OSS, Ericsson Multi-Activation, Ericsson Cloud Manager, WebNMS, Nagios, Netcool, ONAP, MANO)
- 5+ years' experience in product management, presale and business development in a diversified and global environment with excellent interpersonal and communications skills

Professional Experience

Senior Principal Solutions Architect, Reliance Jio USA, Frisco, TX, July 2018 – Present

- Advise Jio's IoT and 5G strategies

Product Management Expert, Huawei Technologies USA, Plano, TX, Oct 2015 – July 2018

- Engage operator engineering teams for technology overviews, RfX readout and multi-session deep dive on 5G architecture, DRAN/CRAN/CloudRAN, MEC, O&M, AI/SON
- Contribute to product requirements and architecture specifications
- Lead product development strategy based on Linux Foundation ONAP (O&M), Akraino (Mobile Edge Computing) and ACUMOS AI projects
- Lead AWS based cloud OSS transformation initiative by designing highly available, cost effective and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMIs
- Develop PoCs using AI & ML technologies (Random Forest, Neural Networks - ANN/CNN/RNN) for network optimization/automations/SON
- Develop Ansible playbook to automated provisioning cloud infrastructure
- Develop iOS apps (published in Apple App Store)
- Work in the development/deployment environment of Linux, AWS, Openstack, Ansible, Docker, Kubernetes

Principle Solution Architect/Solution Manager, Ericsson Inc, Plano, TX, Jan 2007 – Oct 2015

- Define, design and implement Openstack based SON (self-organizing network) solution, including algorithm tuning, capacity /security /network planning, developing Ansible/Chef Playbook to automate deployment process
- Define and design ECDS (Ericsson Call Data processing System) solution for Verizon, including data modeling, GemFire in memory and Hadoop data processing, OpenStack/MANO based Ericsson cloud

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deployment, Splunk

- Define, design and implement Service Deliver Platform solution for Sprint with the entire SDLC process, including requirement analysis, system design, development, integration and maintenance, using IBM Rational tools, WebLogic middle ware, Aqualogic Enterprise Service Bus, iLOG/Drools Business Rule Management System, J2EE/EJB/Messaging API, UML, SOAP, XML
- Design and implement HA EMS solution for Sprint-Nextel, using WebNMS, server side Java adaptation and client side Java applet application, HTTPS based security implementation
- Design and implement MMS gateway solution in J2SE, SMTP, HTTP/HTTPS
- Automate operation and management process by Unix scripting and J2SE development.

Senior System Integration Engineer, Ericsson Inc, Plano, TX, Jan 1999 – Jan 2007

- Develop PoC solutions, including IMS service provisioning, MMS value added service, location based value added services in Java/JSP/JSF and unix shell scripting
- Define SOAP based interfaces between various systems
- E2E network troubleshooting including (UE/handsets, BTS/eNB, RNC, SGSN/GGSN/SGW/PGW, IMS, MMS, OSS)
- Support Ericsson OSS solutions in North America
- Work in the environment of Linux/Unix/Solaris/HPUX, HPOV, Python, BASH, Cisco & Juniper Switch/Router, IMS, MMS, GSM/WCDMA/LTE end-to-end systems, HP Blade System, F5 load balancer

System Integration Engineer, Ericsson Radio Systems, Sweden, Feb 1997 – Jan 1999

- Design GSM-OSS installation and integration procedure
- Create Unix scripts and database stored procedures
- Define system road maps and migration strategies

Education

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|---|---|
| • University of Texas at Dallas | MBA |
| • Chalmers University of Technology, Sweden | MSEE |
| • Shanghai Jiao Tong University, China | BS in Computer Science and Engineering |

Certifications

- AWS Certified Solution Architect Associate
- AWS Certified Developer Associate (planned in 2018)
- Ericsson Certified Senior Solution Architect
- Ericsson Certified System Integrator
- Sun Microsystems/Oracle Certified Java 2 Programmer
- Sun Microsystems/Oracle Certified Solaris System Administrator

Reference available upon request