

Software Architect- Lead Developer Software Architect- Lead Developer Software Architect- Lead Developer - contract - NBC New York, NY Software and Systems Architect, Team Lead Through more than 15 years of experience developing IT strategies and successfully participated, managed and delivered dozens of IT projects in design, development and implementation of platforms and applications, tightly aligning them with business requirements and strategic goals. Highly proficient hand-on abilities in conjunction with notable in-depth knowledge of technology trends and solutions along with their practical implications, costing, migration, change and risk management. Good leadership skills and very innovative. Expert in: Python, OO Programming, Software and Systems Engineering, Linux (Mostly RedHat), TCP/IP Networking, DevOps Familiar with: Zope, Twisted, Celery, Redis, Pyramid, Paste, zc.buildout, Salt stack, Puppet, Zenoss, Nagios, Cassandra, Amazon AWS Cloud, Git, SVN, Core Java/Groovy/Scala, RabbitMQ, Memcached, VoIP(SIP/H323), Virtualization Xen and KVM, , Samba, Win2003/2008 Admin, Varnish, FreeBSD/Unix, PostgreSQL, MySQL, MS SQL, Jenkins, Maven, CouchDB, x86 Assembly, OSPF, BGP, IPv4, H264, Mpeg, DVB-S, OpenLDAP, TACACS+, Radius, NFS, SDH, SS, MPLS, FiberChanel, iSCSI, ZXTM Load balancers, Agile, SCRUM, TDD, Unittests, Spring/Hibernate, Ruby, PHP, VS2008, Javascript, JQuery , Avid SoWDL, Avid Interplay Webservices, VC++, C# .net Work Experience Software Architect- Lead Developer NBCUniversal - New York, NY February 2013 to Present Working as part of software integration services department that is responsible for all video and metadata workflows and digital asset management systems. When joined I inherited a semi-maintained platform consist of some python scripts on servers that were manually maintained. I become responsible for creating a new technology stack that can be used for video/metadata workflow management. This included Vizrt Ardome to Avid Interplay MAM migration project.

Achievements so far: Designed and deployed a multi-tier technology stack mostly based on Python web/RESTfull services and Celery as the core for work flow management, Redis as caching layer, RabbitMQ as broker and Cassandra as backend KV store. Developed essential frameworks, libraries, code and application samples and testing frameworks for web services and work flow automation applications. Developed configuration management, packaging, disaster recovery and

delivery systems based on Salt stack and zc.buildout and Python eggs/RH RPMs Defined and automated environment setups: developers sandbox, playground, test, QA, Prod Defined and evangelized standards for software development lifecycle, coding practices, operations and support processes and documented them. Active contributor to the design of the new Avid MAM system consisting of server specs, SAN specs, VMWare virtualization layer (private cloud) and network connectivity Developed and deployed IBM TSM tape migration system with integration with new Avid Interplay MAM handling background and on demand video migration. Interviewed and hired new developers to join the team Mainly using: Python, Celery, Git, Saltstack, ZC.Buildout, Redis, Cassandra, Jenkins, Confluence, Pyramid, Paster, gunicorn, gevents, Suds, SQLAlchemy, unittests 1<http://www.nbcuni.com> [KB] Python Lead Developer(monitoring) British Broadcasting Corporation - London July 2010 to February 2013 Monitoring) - Quarterly rolling contract As the technical owner of Zenoss based monitoring system for BBC and its entire supporting infrastructure, APIs and frameworks, I was responsible for development of high performance time sensitive applications, Zenoss extensions and fixes, automation tools, frameworks and libraries. According to Zenoss, BBC had largest installation in Europe at the time. Achievements: Delivered migration of tools and applications as prerequisite for Zenoss 2.5.2 to Zenoss 4.1.1 upgrade plus ironing out architecture shortcomings for backups, fail-over and redundancies. Developed dozens of ZenPacks and stand alone daemons for monitoring AWS Cloud, Xen, ZXTM(Stingray) Load balancers, HP Bladechassis and storage systems, BBC Applications, Memcached, CouchDB, Postgresql, RH Cluster Suite plus patches and fixes to Zenoss core. Participated in Zenoss 2.5.2 core to 2.5.2 Enterprise upgrade Took over and established new business processes and requirements, software development standards and release cycles and environments and software quality control mechanism Delivered clean up, and several performance enhancements to keep the system working Delivered automation tools and libraries and Zenpacks for monitoring. Provided support for hundreds of product groups to guide and train them to setup appropriate monitoring for their applications Provided documentation, training material and courses for operations and developers, to use Zenoss and monitoring libraries effectively. Mainly using:

Python, Zenoss, ZenPacks, Zope, Twisted Framework (Event driven), Eclipse, SVN, Jira, Confluence, Hudson, Maven, Puppet, MySQL, memcached, RabbitMQ, Javascript(JQuery ExtJS), Bash, Java, Tomcat, C, Agile IT Manager (Head of IT) Islam Channel Ltd - London February 2006 to July 2010 Part Time Islam Channel started as single outsourced 24/7 TV satellite based TV channel employing 5 people and quickly grown to fully in-house multi-channel broadcaster with around 100 employees. As head of IT, had to create, expand and maintain an entire IT infrastructure with approximately 200 servers and PCs for audience facing as well as internally used services. (Hands on, tiny team) Using: Win2003/2008 ActiveDirectory, Cisco R&S, VectorBox Playout, Tandberg, Vizrt, Satcom Mpeg/WMV/Flash Encoding and transcoding, Zimbra, Zenoss, Sonicwall, OpenNAS, C# .net CTO, Chairman, Founder Shatel March 2000 to March 2005 Started an ISP/ITSP business, which eventually became the second largest in the country. Lots of hands on work plus management Delivered full infrastructure design, deployment and management that included 3xNOCs and around 20,000 POPs across the country Delivered tailor made fully automated customer billing and support system Delivered enterprise class internal IT desktop services and support Using: Cisco Routers/Switches/Firewalls and VoIP Gateways, BGP4, OSPF, Paradyne/Zyxel DSLAMs, Linux, RADIUS, TACACS+, MRTG, Nagios, OpenSer, Cacti, Perl, Python, Mailman, Bind, Postfix, Squid, Postgresql, VB, MS SQL, Windows 2000 Active Directory Safineh ISP March 1999 to March 2000 R&D delivered solid state Linux based access servers as a retail product with full services and support Using: Linux, GCC, Bash, Python, mgetty+radiusclient Education MSc in Systems/Industrial Engineering Sharif University of Technology 2001 PhD(not defended) in Telecommunications Computer Networks Brunel University - London Skills Python, OO Programming, Software and Systems Engineering, Linux (Mostly RedHat), TCP/IP Networking, Zope, Twisted, Celery, Redis, Pyramid, Paste, zc.buildout, Salt stack, Puppet, Zenoss, Nagios, Cassandra, Amazon AWS Cloud, Git, SVN, Core Java/Groovy/Scala, RabbitMQ, Memcached, VoIP(SIP/H323), Virtualization Xen and KVM, , Samba, Win2003/2008 Admin, Varnish, FreeBSD/Unix, PostgreSQL, MySQL, MS SQL, Jenkins, Maven, CouchDB, x86 Assembly, OSPF, BGP, IPv4, H264, Mpeg, DVB-S, OpenLDAP, TACACS+, Radius, NFS, SDH, SS, MPLS,

FiberChanel, iSCSI, ZXTM Load balancers, Agile, SCRUM, TDD, Unittests, Spring/Hibernate, Ruby, PHP, VS2008, Javascript, JQuery , Avid SoWDL, Avid Interplay Webservices, VC++, C# .net Links
Certifications/Licenses Professional Training and Certification Professional Certifications ISEB
Diploma in Business Analysis ISEB Diploma in Systems Development Prince2 Practitioner
Microsoft Certified Technology Specialist in .Net Web/Windows Application Microsoft Certified
System Administrator Cisco Certified Network Associate Routing & Switching ISEB
Intermediate Certificate in Enterprise and Solutions Architecture (TOGAF/Zachman) Professional
Trainings FireBrand Training MCTS.Net Parity Prince2 and ISEB Courses ITIL 3 Foundation
Learning Tree advanced Java programming with Spring and Hibernate Avid MAM and SWoDL
Development Additional Information For publications, open source softwares and extra information
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