Lee Johnson

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Summary:

- Senior Software Engineer/Technical Manager with strong development/analytical experience (20+ years on software design/implementation)
- Extensive hands-on experience in implementing container based *aaS technology infrastructure across diverse clustered/scaling cloud computing environments.
- Seeking enterprise platform engineer/architect position to build out a containerized "greenfield" CI-CD environment (openshift/kubernetes/docker).
- My experience is with private/internal enterprise cloud infrastructures in institutional client settings (e.g., intl bank & intl financial institution). The container tech stack I am mostly working with - and interested in continuing to work with - is Python/Kubernetes/Openshift/Docker.

Skills:

Platforms/OS:	Openstack, Openshift, Docker, Kubernetes, Cloudify, VMware, Linux (Ubuntu, RHEL, Centos, Mac OS X), iOS (v5+)
Languages/Frameworks:	Python, Nodejs, Swagger, JavaScript, C++, R, Java, Objective-C, STL, Boost
Databases:	Oracle(11g/12c) PL/SQL, MySql, MongoDB, Redis, SQL Server
CI/CD:	Openshift, Kubernetes, Docker, Jenkins, Maven, Selenium
Security/SSO:	OpenID, OAuth2, CAS, Netegrity Siteminder, SSH, SSL/PKI/HTTPS
Statistical SW:	R, sklearn, pandas/numpy, Minitab, Mathematica
Network Inspect/Dbg:	Fiddler, Wireshark, winpcap, Sulley
Software:	Openshift, Docker, Kubernetes, Ansible, Puppet, Jelastic, Cloudify, Jenkins, vSphere/vCenter, ESXi, nginx, Zabbix, Eclipse (PyDev/Nodeclipse), IntelliJ PyCharm/WebStorm, Sublime, Brackets, Jupyter, Visio, Oracle JDeveloper

Education:

- Columbia University - Master of Arts, Major: Mathematics
- Stevens Institute of Technology - Bachelor of Science, Major: Mathematics, Minor: Computer Science

Experience:

EPG – New York, New York

Platform Architect/Cloud Architect - Principal Consultant/Partner   *February 2009 – Present*

- Implemented Jenkins declarative pipelines to concurrently build/test/deploy/run application stacks.
- Enabled automated continuous container deployment using Jenkins, Selenium, Git, Artifactory and containerized runtime deployment platform in Openshift/Kubernetes
- Built infrastructure provisioning POCs converging on production state to enable (1) containerized runtime platform deployments, (2) CICD flows with automated testing, (3) hardened security requirements (crypto vaulting).
- Developed inventory record linkage automation to match logical records to the physical scanned data leveraging multiple classification algorithms (logistic/svm).
- Develop automated trade strategy execution platform leveraging real-time/historical data, charting, and statistical evaluation (python/R/Java).
- Developed interfaces/dashboard (python/flask/d3.js/react.js/crossfilter.js) to service PaaS inventory use cases.
- Developed scanning and ETL processes servicing software inventory, information security and configuration management use case using python (Flask/SQLAlchemy/pandas/numpy) and ansible.
- Enabled python test automation using Jenkins/Browserstack/Selenium
- Implemented deployment plugins for enabling blueprint based clustering/autoscaling PaaS use cases for large clients using Openshift, Docker, Ansible, Openstack, Cloudify and Nginx/Jelastic stacks.
- Implemented idempotent VMware build datacenter automation using python for IaaS and VM provisioning.
- Implemented Node OAuth2 for Node.js REST API Endpoints.
- Developed JSON interfaces using node.js, angular, ejs templates, bootstrap, express.js, mongodb and REST API.

Hardware:	Dell m1000e PowerEdge, NetApp, / HP Proliant / Netgear / Cisco Catalyst
Software:	Openshift, Kubernetes, Docker, Jenkins, Artifactory, Nexus, GIT, Confluence, Openstack, Cloudify, Docker, Ansible, Kubernetes, Swagger, Puppet, Chef, VMWare vSphere/vCenter,

	RHEL7, JBoss WildFly, Oracle VirtualBox, Amazon AWS, ubuntu, python/ipython, node, jenkins, gcc, powershell, strace, git, moodle, mysql, MongoDB, nginx, ntop, oracle 11g/12c, perl, pfSense, php, ubuntu, brackets, jetbrains PyCharm, sublime text3, veeam, webmin, jetbrains, eclipse, xcode
Languages & Frameworks	Openshift, Python (Flask/SQLAlchemy/pandas/numpy), Ansible, TOSCA/Cloudify, Docker, Browserstack, Jython, Node.js, express.js, d3.js, MongoDb, node-oauth2, java, web service API integration (REST, JSON)

Past Experience:

Ipreo (formerly i-Deal) – New York, New York

Director of Software Development   *April 2007 – January 2009*

- Led multiple global technology teams and off-shore development centers based in four different continents.
- Managed delivery, implementation and program for clients, specializing in capital markets new issuance trading platforms and technologies
- Directed SDLC implementations and enforced SLA terms for security, scalability and performance and functional specifications.

Hardware:	Netscaler 7000/ 8-way 2.9G CPU 32G RAM 6 VMs/ EMC San CX3-80, Cisco Catalyst 6590 / Cisco PIX 535 / Savvis Datacenter/Cloud
Software:	VMWare vSphere, VMware ESX 3.5, MS SQL Server 2005, ASP.NET, windows server 2008, MS Sharepoint, MS Visio, visual studio, Mercury LoadRunner/TestPartner
Languages & Frameworks	C#, Asp.net, ActiveX, DCOM/COM+/AD, SQL Server

Standard and Poor's – New York, New York

Software Development Manager   *January 2006 – March 2007*

- Development for the ABS Analytical Platform and Manager Workstation producing ratings and indexes, across 500+ issuers.
- Developed infrastructure for market data surveillance processing to support market feeds, ABS products, primary analysis and syndicate initiatives.
- Designed/Developed/Implemented historical security performance time series, and security master warehouse, used for data quality processing and security surveillance for all ABS related ratings actions.

Hardware:	Dell Poweredge Servers, Sun Sparc
Software:	Solaris, Oracle 10g, Oracle Warehouse Builder, Oracle OLAP, Informatica, MS Sharepoint, MS Visio, Sql Navigator, java, WebSphere, JMS
Languages & Frameworks	Java, JEE, Portal/Portlets

Credit-Based Asset Securitization and Servicing LLC (C-BASS) – New York, New York

Software Development Manager   *December 2004 – January 2006*

- Managed development for servicing and securitizing credit sensitive residential mortgage based products and trading and analytic systems used for firms investments.
- Directed IT development including the Whole Loan Trading System, Bond Trading System, Claim Processing System, and BPO Ordering System. Including regular status and strategy meetings with senior business leaders.
- Supervised processing and quality for whole loan historical performance time series, and loan master warehouses, used for whole loan bidding, structuring, underwriter reporting and investment surveillance
- Lead development teams supporting portfolio management to the traders, analysts in the securitization process, and feeding the General Ledger and underwriting investment banks.   Vendor systems included Intex Loan Performance, Bloomberg, Transunion, and various Trustees.

Hardware:	Sun Ultra 5 Workstations
Software:	Solaris, Windows NT, Oracle
Languages & Frameworks	C++, Visual Basic, ActiveX

Citigroup – New York, New York

Project Manager/Technical Lead   *February 2000 to November 2004*

- Responsible for Prime Brokerage platform of systems providing end-to-end technology solutions for institutional trading execution and settlement of multiple financial products with hierarchical arranging account relationships.
- Facilitated implementation of global prime brokerage portal and migration of the international prime brokerage site logic and functionality into the global PB site.
- Lead implementation for reporting platform supporting all identified fund reporting requirements enabling flexible and configurable daily-batch and real-time report execution. Implemented Reuters RV interface for real time pricing and portfolio management accounting and status reporting.

Hardware:	Sun Ultra 20 Workstations
Software:	Solaris Unix, Apache, Jrunner, JBoss, JMS
Languages & Frameworks	Java/JSP, J2EE

Ambac Financial Group, Inc. – New York, New York

Technical Lead   *November 1997 to February 2000*

- Responsible for the development and enhancements of the Asset Liability Management System (ALMS) enabling portfolio management with fixed income and ABS holdings and liability management functions pertaining to hundreds of municipal client accounts.
- Managed successful implementation of Oracle packages supporting real-time Bloomberg market data and trade affirmation messages for repo and reverse-repo transactions from the Bloomberg portfolio management software feeding into back-office systems.
- Implemented automated asset allocation implementing with a 3rd party Java, Perl, and GAMS.

Hardware:	Sun Sparcstation 20
Software:	Solaris, Windows, Apache, Jrunner, JBoss, JMS
Languages & Frameworks	Java, JSP, Oracle, J2EE, Visual Basic

Merrill Lynch – New York, New York

Technical Lead   *April 1995 to November 1997*

- Designed and implemented the enterprise reference data model supporting a global identification of counterparty and settlement instruction (Swift clearing) information across products and regions through data consolidation, normalization into a single replicated repository with phased integration implementations across multiple regions.
- Designed and developed enterprise reference data model supporting a global identification of counterparty and settlement instruction (Swift clearing) information across products and regions through data consolidation, normalization into a single replicated repository with phased integration implementations across multiple regions.

Hardware:	Sun Sparcstation 10
Software:	Solaris Unix, xserver
Languages & Frameworks	C++, Java, Motif

Credit Suisse Financial Products – New York, New York

Associate/Software Engineer   *August 1994 to March 1995*

- Implemented swaps and options trade books using lotus add-in macros and functions (C) to capture, run valuation and risk analytics for commodity derivatives, including commodity quanto-swaps, futures, forwards, Asian options, and fx trades.

Hardware:	Sun Sparcstation 10
Software:	Solaris Unix, Lotus Spreadsheet
Languages & Frameworks	C++, Lotus Add-ins