Ravishankar Ramanathan

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SUMMARY OF QUALIFICATIONS

- **Technology Evangelist**: 10+ years experience initiating high availability/ scalable projects, driving new features, establishing standard operating procedures, successfully completing projects on-time and on-budget
- **Enterprise Data Architect**: 10+ years experience creating data models, integrating security, migrating to common data model and modeling flexible/ scalable high-availability data solutions
- **IT Operations Lead**: 5+ years experience leading operations team, acting as SPOC and liaising with customers, internal (technical/ non-technical) teams and management to resolve issues
- **Software Development Lead**: 5+ years experience delivering multiple major, minor releases, bug fixes and patches for large-scale commercial software (Oracle Portal) using industry standards

KEY PROJECTS

- **IT Operations**: Owner of web, application, single sign-on and other middleware services in an internal private cloud that was spread over 200+ VMs with over 2 million hits daily from 1000+ users; supported 24/7 operations of NIF
  - Headed middleware operations, migrated and managed application services on internal private cloud
  - Eliminated old hardware and software, streamlined licensing requirements that saved more than $135,000 annually
  - Managed a high available single sign-on service for mission critical applications running in NIF control room
  - Consolidated duplicate services across environments which resulted in a reduction of IT footprint by 30%

- **Splunk**: Managed Splunk services for Shot Data Systems, configured a distributed clustered environment - single site architecture consisting of a single search head with clustered indexers, and universal forwarders
  - Configured Splunk knowledge objects, field extractions, lookup tables to search, correlate and visualize data
  - Leveraged advanced features of Splunk such as DB Connect, Regex, Rex, Search Processing Language
  - Defined metrics and KPI to track performance of in-house applications, report system statuses, monitor user access
  - Standardized format and location of input sources for Splunk to ease ingestion of machine data

- **Security**: Directed a multi-pronged project to overhaul security at NIF after discovering multiple issues affecting the stability and scalability of IT operations that resulted in an improved security posture
  - Analyzed data from organization to facilitate creation of new groups, led development in redesign of security library
  - Designed new top-level topology in AD for groups, corresponding data tables for in-house security application
  - Configured F5 policies and attribute based access control to regulate application access using metadata
  - Enabled encryption across middleware and security services to prevent plaintext transmission of user authentication

- **Middleware**: Designed operations framework to standardize middleware technology stack with both short-term and long-term support emphasis; obtained approval, resources from stakeholders and successfully completed the migration
  - Eliminated unsupported software by persuading development teams to update their applications stack
  - Delivered a single middleware standard that ran current supported software and met security requirements
  - Established a unified development environment with tool (JRebel) to reduce downtime between code changes

- **DevOps**: Integrated middleware with other DevOps tools to manage, monitor and log services; used centralized services such as RunDeck/ Puppet in middleware infrastructure; developed solutions that reduced wait-times
  - Launched Jenkins with LDAP in NIF infrastructure to support continuous integration and continuous delivery
  - Delivered Infrastructure as Code services using git-based configuration and creation scripts for use with Puppet
  - Enabled Automated Zero Downtime Deployment by employing WebLogic 12c maven plugin and versioning features
  - Deployed Oracle Enterprise Manager agents to monitor applications, application servers and track their performance

- **Oracle Portal Export/ Import**: Software Development Lead in charge of export/ import tool for Oracle Portal which was used by clients including those in Fortune 500: Citigroup, Oracle Corporation, POSCO Steel, P&O Stena Line
  - Architected an extensible migration framework to deploy, backup and seed portal objects that received a patent
  - Reduced bugs from well over 60% to less than 2% by improving other areas and creating schema repair utility
  - Facilitated use of migration tool to seed and manage my.oracle.com when it deployed on Oracle Portal (ca. 2005)
  - Acted as SPOC for product issues faced by customers, interacted with executive team across both sides

PATENT

- **Ramanathan et al**: 2008. "Approaches for migrating portal objects from a source installation to a target installation." US Patent No 7346627, filed February, 2004 and issued March, 2008

CERTIFICATION

- **Splunk Corp**: "Splunk Power User" issued March, 2017

EXPERIENCE

- **Lawrence Livermore National Laboratory** — Livermore, CA
  IT Operations Lead, Middleware Architect, Project Coordinator for National Ignition Facility — Nov 2011 - Mar 2017
  - Designed middleware, identity/ access, application services and headed daily operations of those services
  - Led system and process analysis efforts to provide creative solutions for highly complex problems at NIF
  - Developed complex functional requirements, provided input and status for project tracking activities
  - Collaborated with IT teams and customers to ensure proper integration of web application environments
  - Identified new technologies, services that benefitted NIF and prototyped solutions to implement them
  - Integrated applications and domains with Active Directory (AD), and managed software lifecycle
  - Monitored issues with web application health using tools such as Oracle Enterprise Manager and Splunk
  - Developed comprehensive shell scripts in support of automation of highly advanced production services
  - Enabled customer access to NIF's software applications by automating provisioning of user accounts
  - Wrote requirements, design, technical and end-user documentation to support various services at NIF

- **Self Employed** — Bronx, NY
  LAMP developer — Mar 2006 - Feb 2007
  - Developed real estate lead generation website that interfaced with Trulia for listing data
  - Decommissioned online presence of small stock brokerage firm while meeting regulatory requirements

- **Oracle Corporation** — Reston, VA
  Principal Member Technical Staff for Oracle Portal, Tools Division — Feb 1998 - Aug 2005
  - Led multi-disciplinary software engineering team of 18 in the development of Oracle Portal export/ import
  - Delivered multiple major/ minor releases, upgrades and patches of the software successfully and on-time
  - Designed a scalable, distributed architecture that enabled both in-band and out-of-band migration
  - Managed, mentored developers, testers, document writers and product managers located across the world
  - Developed new design-time, navigation UI that improved discovery of content management objects
  - Created approval workflows for document management for Sitebuilder, the precursor to Oracle Portal

SKILLS

- **Project & Lifecycle Management**: Agile project management, Database design (RDBMS), Enterprise-wide implementations, Migrations and integrations, Process improvements, Requirements analysis, Resource planning, Software development, Design and development, Scheduling, Testing, Rollout, Support
- **Value-Added Leadership**: Cross-functional and multi-geographic team supervision, Team building & mentoring, Skilled negotiator, Customer management, Collaborative leader
- **Technical Skills**: Bamboo, Bash, BitBucket, C#, Docker, Eclipse, Enterprise Manager, F5, Forms/ Reports, Git, HTTP Server, i18n/ l10n, IAM, Java, Jenkins, Jira, JMeter, LDAP, Linux, MySQL, NodeJS/ Express, PL/SQL, PowerShell, Puppet, Python, RDBMS, RunDeck, Splunk, SQL, Tomcat, VM, WebLogic, Wiki, Windows

EDUCATION

- **George Mason University** — Fairfax, VA
  MS in Electrical & Computer Engineering — 1995

- **Annamalai University** — Annamalai Nagar, India
  BE in Instrumentation Engineering — 1990