

Ravishankar Ramanathan

3059 NE 97th St, Seattle, WA 98115

Email: raramana@gmail.com

Mobile: +1-650-804-4264

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 to mine data and develop statistical algorithms on large data sets
 - 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 revamp of security infrastructure, led development in its redesign
 - 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
 - Delivered an integrated middleware standard that ran current supported software and met security requirements
 - Updated middleware software to current versions and setup process for managing patches and updates
 - Eliminated unsupported software by persuading development teams to update their applications stack
 - 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 with Git, Python, Puppet for Middleware, and IAM services and operations
 - 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
 - Drove projects from inception to completion, monitored progress, identified deviations and addressed risks
 - 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/ i10n, 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