Ravishankar Ramanathan

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SUMMARY OF QUALIFICATIONS

- **IT Professional**: 15+ years experience managing multi-disciplinary teams, developing software, focusing teams on business objectives, improving IT processes, and strengthening security
- **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
- **Software Architect**: 5+ years experience designing identity and access solutions for enterprise-wide infrastructure, deploying and managing them in virtualized cloud computing environment
- **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

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, IAM, Java, Jenkins, Jira, JMeter, LDAP, Linux, MySQL, NodeJS/ Express, PL/SQL, PowerShell, Puppet, Python, RDBMS, RunDeck, Splunk, SQL, Tomcat, VM, WebLogic, Wiki, Windows

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

EXPERIENCE

- **National Ignition Facility, Lawrence Livermore National Laboratory** — Livermore, CA
  Multiple Roles — *Nov 2011 - Mar 2017*
  - **Middleware**: Headed multiple high risk/ high visibility programs in Middleware; planned projects, developed road maps, managed team schedules and activities; mentored developers, team members and IT staff on best practices
  - **Security**: Directed overhaul of security infrastructure, worked with stakeholders in identifying areas most in need of improvement, aggregated and analyzed data across security silos to identify and manage vulnerabilities
  - **Splunk**: Consolidated machine data to monitor services/ applications, user behaviors; developed visualization to track performance, user experience, and setup alerts to broadcast issues as they occurred
  - **DevOps**: Automated infrastructure deployments, supported initiatives by other IT operations teams to evolve Middleware DevOps best practices

- **Contractor** — Bronx, NY
  Consultant — *Mar 2006 - Feb 2007*
  - **LAMP developer**: Developed real estate lead generation website; decommissioned online presence of small stock brokerage firm while meeting regulatory requirement for data retention and destruction

- **Oracle Corporation** — Reston, VA
  Multiple Roles — *Feb 1998 - Aug 2005*
  - **Development Lead**: Led multi-disciplinary team of developers, testers, document writers and product managers for portal export/ import migration tool used in deployments, backup & restore, and loading of seed data
  - **Developer**: Improved content discovery by building a new navigator widget; built design-time UI to manage categories and perspectives within content management system in Oracle Portal
  - **Consultant**: Developed approval workflows for document management for Sitebuilder, the precursor to Oracle Portal

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
  - Splunk - Visualized machine data to analyze user trends and system performance over time in Shot Data Systems, created Splunk artifacts to provide glass-table view of IT operations and promoted use of software across teams
  - Docker - Assessed application in a container strategy and developed process steps to deploy Docker in NIF infrastructure, prototyped microservices for security roles web service using Node.js/ Express
  - Salesforce - Spearheaded resolution of SSL cipher related issue that required coordination between developers, networking teams (NIF/ LLNL) and Salesforce.com support when moving up their API version for TLS 1.2 support
  - Single point of contact for management of projects, incidents and escalations; performed root cause analysis; liaised with customers, internal (technical/ non-technical) teams and management; expedited resolution of issues

- **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 a streamlined security posture
  - Active Directory - created new top-level topology in AD for groups, setup group memberships, redesigned common security module to utilize group-based access
  - Database - Extended internal application security repository to support groups, memberships in RBAC, setup scheduled service that synchronized users/ group data from AD using built-in packages
  - Identity & Access Management - Redeployed OAM Single Sign-On service as a unified high availability stack that supported multiple application domains and software lifecycle environments while reducing IT footprint by 70%
  - F5 BIG-IP - Configured F5 policies to restrict cross-environment access, manage application domains, and reject requests based on URI; developed attribute based access control to regulate application access using metadata

- **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
  - Migration - Led the operation to move all in-house applications to new standard running on private cloud; eliminated old hardware and software; consolidated licensing requirements, saved more than $135,000 yearly
  - Production Copy - Established new domain environment consisting of host VMs, application servers, applications, load balanced endpoints troubleshoot production data related issues; prevented developer accidents in production
  - Increased Developer Productivity - Capitalized on the single middleware standard to deliver a unified development environment for developer desktop with tooling (JRebel) to support reduced 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
  - Continuous Integration / Continuous Deployment - Launched Jenkins with LDAP in NIF infrastructure to support CI/ CD services; worked with change management team to assimilate Jenkins into their service stack
  - Infrastructure as Code - Engineered script-based creation of WebLogic/ OAM domain components and resources, committed scripts to git and used those to deliver fast, reliable and repeatable environments
  - Automated Zero Downtime Deployment - Utilized new features in WebLogic to automatically deploy without pausing services, enabled cross functional applications like security web services to be deployed with no downtime
  - Monitoring - Linked Oracle Enterprise Manager agents to support end-to-end monitoring of middleware services; enabled JVMD to diagnose memory leaks and db waits through live thread analysis

- **Oracle Portal Export/ Import**: Software Development Lead in charge of migration tool for Oracle Portal which was used by clients including those in Fortune 500: Citigroup, Oracle Corporation, POSCO Steel, P&O Stena Line
  - Architecture - Designed an extensible framework to deploy, backup and seed portal objects that received a US Patent; shrunk number of bugs from well over 60% to less than 2% of the bug total
  - Dogfooding - Facilitated use of migration tool with team management as one of the options in seeding my.oracle.com when it deployed on Oracle Portal (ca. 2005); used the exercise to gain valuable insights and address bugs

Education

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

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