

Ravishankar Ramanathan

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SUMMARY OF QUALIFICATIONS

- **IT Professional:** 15+ years experience managing multi-disciplinary, multi-geographic teams, developing software, focusing teams on business objectives, improving IT processes, and strengthening security
- **Technology Evangelist:** 10+ 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 development, 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:** 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
- **George Mason University** Fairfax, VA
Systems Manager *Aug 1995 - Oct 1997*
 - **Instructional Resource Center:** Led integration of collaboration (WebCrossing) and e-learning (WebCT) software with existing infrastructure; developed web reservation system for managing educational workshops

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
- **Middleware:** Designed operations framework to standardize middleware technology stack with both short-term and long-term support emphasis, migrated all in-house applications to new standard; eliminated recurrent IT support calls
- **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
- **SPOC:** 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 - created new top-level topology in AD for groups, setup group memberships, redesigned common security module to utilize group-based access; streamlined security posture
- **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 over 60%
- **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
- **OC4J-to-WebLogic:** Led migration of in-house applications running on outdated hardware and software stack to internal cloud; obtained approval, resources from stakeholders and successfully completed the migration
- **DevOps :** Integrated middleware with other DevOps tools to monitor and log services, used centralized services such as RunDeck to manage administrative tasks and Puppet to manage middleware infrastructure
- **Continuous Integration / Continuous Deployment:** Launched Jenkins with LDAP to 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 with reduced wait-times
- **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
- **Docker:** Assessed application in a container strategy and developed process steps to deploy Docker in NIF infrastructure, identified areas that required additional investigation while building a container platform (monitor, security, updates)
- **Monitoring:** Added 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
- **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
- **Node.js/ Express :** Prototyped a container-based authorization microservice for the existing role based access control framework to identify permissions assigned to the user through roles
- **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
- **JRebel:** 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
- **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
- **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
- **Annamalai University** Annamalai Nagar, India
BE in Instrumentation Engineering