ANANDA RAO DARLA

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## Objective: Seeking for EA/Devops Architect

Summary:

Visionary Enterprise Architect with 18+ years of diverse experience ranging from leading cutting-edge start-ups to building large- scale solutions for Fortune 100 enterprises. Experienced professional background and excellent education provide a solid foundation to solving challenging business problems with innovative enterprise solutions. Powerful blend of technology vision and business acumen results in consistent development of powerful business strategies supported by cost-effective, high-performance Technology infrastructures and applications.

Core Skills:

* Solid 10 plus years of experience in Iaas, Paas and SaaS
* Cloud Architecture/ Design: Deep expertise in large scale cloud Architecture/ Design and deployment in Google Cloud Platform (GCP) and AWS This includes working with cutting edge tools/ frameworks like Docker, Kubernetes, Terraform, Gitlabs, Vault and Consul to make cloud deployments more manageable.
* Solution Architecture/ Design/ Development: Extensive experience in Architecture/ Design of Java/JEE, Machine Learning, Big Data Analytics/ Business Intelligence, Mobile and SOA solutions using commercial and Opensource frameworks/ technologies.
* Excellent Coding/ Development Skills: I engage heavily (30-50 % time based on initiative) in coding common framework classes, reusable/ core components. Key focus is to create Reference implementation/ Blueprints that developer can build upon.
* Big Data & Machine Learning: Excellent hands-on exposure to frameworks like Apache Spark, Kafka, MLib, Hadoop stack, Visualization tools and NoSQL databases like Neo4J, MongoDB, Cassandra, HBase etc.
* SOA/ Microservice /REST: Done end-to-end Architecture/ Design/ Development of complex SOA solutions involving Microservices, ESB, Services, Messaging, Broker & XML Appliances.
* Large Scale Enterprise/ Web Architecture: Designed very large-scale Architectures/complicated Network deployments for many Java/JEE based Web applications catering to millions of users/ transactions, 24\*7 availability etc.
* Mobility Platform: Good exposure to Android native, Hybrid and pure HTML5/ JS solutions & related frameworks & automation tools.
* Algorithms/ Data Structures: Designed, Leveraged Developed new Algorithms/ Data Structures to optimize execution time/ minimize CPU/ memory usage
* Worked on Akamai property development, I have setup LLE, HLE, PERF and PROD environment with 50:50 and 100:0 various traffic weights, caching.
* Setup the custom Akamai monitoring in the akamai portal
* Worked as a admin and managed Apigee Edge and Apigee X, I have setup end to end apigee setup for 10-20 environments, developed various proxies, made auto version of proxies, setup targets, caches and environment properties

Languages, Frameworks, API’s

* Cloud: GCP, AWS, AZURE, Docker, Kubernetes, Terraform,PCF, Chef, Ansible, Vault, Consul, Zabbix
* Languages: Java, Scala, Python, JavaScript, SQL, Bash shell
* Big Data Processing: Apache Spark, Kafka, MLib, Hadoop, Hive, Pig, HDFS, Zookeeper
* Database: MongoDB, Cassandra, Neo4J, OrientDB, Redis, Hazelcast, HBase, DB2, Oracle, Teradata, Vertica
* Machine Learning: Spark MLib, Apache Mahout, Torch, H2O, Prediction.io
* Visualization: D3.js, Kibana, Tableau, Pentaho,
* Search: Elasticsearch, Apache Solar, Lucene
* Web Application: Node.js, Angular.js, JavaScript, HTML5, Bootstrap, Spring, jQuery
* Microservice: Spring Boot, Swagger, IBM JAX-RS, Spring REST, Jackson, GSON
* Build/ Deployment: Maven, Gradle, Jenkins, Docker, GitLab
* Mobile Development: Android, IOS, Hybrid, Ionic, Apache Cordova

**Work Experience & Projects:**

**EA at Expedia, USA: August 2022 to till date.**

* **Set Clear Objectives**: Define the vision, goals, and objectives for the team.
* **Strategic Planning**: Develop and communicate a strategic plan aligning with business objectives.
* **Inspire and Motivate**: Encourage innovation and inspire team members to achieve their best.
* **Architecture Oversight**: Ensure architectural decisions align with best practices and organizational standards. And Designed Microservice architecture for the runtime platform team.
* **Technology Evaluation**: Assess and recommend new technologies that can enhance business processes.
* **Best Practices**: Promote and enforce coding standards, security guidelines, and development methodologies.
* **Cross-functional Collaboration**: Work with other departments (e.g., marketing, finance) to understand their needs and integrate solutions.
* **Stakeholder Communication**: Regularly update management and stakeholders on project progress, challenges, and outcomes.
* **Team Meetings**: Hold regular team meetings to discuss progress, address issues, and brainstorm solutions.
* Helped on data streaming and analytics for various travelers traffic for Expedia using ELK
* Designed and implemented scalable and highly available architectures using a variety of AWS services, including VPC ELB/ALB, IAM, EC2, S3, and RDS.
* Employed AWS Control Tower services to set up landing zone with foundational principles promoting business success, automated complaint account provisioning via AWS Factory and Catalog services.
* Applied AWS Lambda functions with AWS software development kit module (boto3) to interact with python scripted language and effected AWS resources at scale, drove down operations cost, deleted unused EBS volumes at regular intervals, stopped EC2 instances at idled hours, copied AWS S3 objects from one AWS region to another region for disaster recovery and back-up safety measures.
* Implemented security best practices to include quarterly access key rotations, role-based permissions, multi-factor authentications, Security Groups and Network Access Control Lists (NACLs)
* configurations, and secret (credential base64 encoding) component in a Kubernetes cluster.
* Participated in migration of on-premises infrastructure to the cloud, resulting in cost savings and
* Collaborated with software development teams to improve CI/CD roadblocks, de-conflicted work. improved performance. interests and improved teamwork between Developers, Site Reliability Engineers, DevOps team and business stakeholders
* Implemented infrastructure as code using Terraform, resulting in improved reliability and scalability of systems.
* Built and maintained a highly available Kubernetes cluster on AWS, including deploying and scaling applications.
* Improved security of systems by implementing best practices such as encryption of data at rest and in transit
* Improved security of systems by implementing best practices such as encryption, firewalls and RBACDesign and implementation of newer environments with micro services orchestration through Kubernetes.
* Expertise hands on automation by writing ansible playbook, Docker files, Kubernetes manifest yaml files and shell.
* Working as an individual contributor and technical lead to the team of 18 people from offshore and on shore to deliver and accomplish the client requirements.
* Did cutover from Google to M365 Migration.

**Skills**: AWS, Google Cloud Platform (GCP), Docker, Kubernetes, Terraform,PCF, PowerShell, Ansible, Vault, Consul, Zabbix, Java/JEE, AWS, Elasticsearch, Microservices, REST Services, Spring Boot, IOT, Apache Spark, Data Pipelines, NoSQL DB (MongoDB, Cassandra, Neo4J, Redis), Angular.js, D3.js, Apache Kafka. Monitoring tools datadog Splunk and Dynatrace

**Devops /Site Reliability Architect at Humana, USA: July 2019 to august 2022**

* Helping all **Humana** on-prem project into AWS and GCP cloud migration, Creating infra and application Architecture. To build and maintain Highly Available secure multi-zone GCP cloud infrastructure with All suitable GCP Services/Offerings, Jenkins, Spinnaker, Docker, and Kubernetes for continuous integration and Continues deployment with CloudFormation, Helm and Terraform.
* High-Level Architecture Diagram: Illustrate the overall architecture, including major components and their interactions.
* Detailed Architecture Diagrams: Provide detailed views of individual components, networks, and data flows.
* Component Descriptions: Describe each component in detail, including its purpose and interactions with other components. Identity &amp; Access Management: AWS Organization, AWS IAM, AWS Secrets Manager.
* Governance &amp; Compliance: AWS Config Rules, AWS Organization, AWS Control
* Tower, AWS Trusted Advisor, AWS Well Architected Tool, AWS Budgets, AWS License
* Extensive leverage of Micro-service tools i.e Containerizations like Docker, Kubernetes,
* ECS, EKS, Faregates.
* Exposure in implementing PoC/MVP of end-to-end AWS Solutions.
* Leveraged and operationalized the AWS Instance Scheduler solution across
* environments of Reserved Instances to reduce its running during off traffic.
* minimizing operational cost. Thus, reducing cost by almost 65%.
* Carried out right sizing recommendation exercise for under-utilized EC2 and RDS
* instances across all environments,
* storage classes i.e., moving data between S3 standard, S3 Glacier and S3 standard-IA.
* Proposed and implemented governance and billing controls, tagging and enforcement with AWS Cost and Usage report,
* Extensive Lambda functions with Both 3 utilizations for EC2 and other services
* automations,
* LLDs for migrating various applications including network sizing, Instance types, names,
* tags etc. Developed required and optional tagging reference document for automation,
* compliance and consolidated billing Developed baseline VPC and Network design, including leveraging VPN connectivity and Direct Connect Developed baseline AWS.
* account security, implemented/integrated end-point protection, vulnerability scanning and intelligent threat detection.
* Hands on Image &amp; Patch: AWS SSM Patch Manager, AWS Golden AMI
* Engage fully in AWS Security: AWS Security Hub, AWS Guard Duty, AWS Shield, AWS Firewall Manager.
* Programming Languages: Bash, JSON, YML, Python
* Implement security best practices in AWS including multi factor authentication, access key rotation, encryption using KMS, firewalls- security groups and NACLs, S3 bucket policies and ACLs etc.
* Design for high availability and business continuity using self-healing-based architectures, fail-over routing policies, multi-AZ deployment of EC2 instances, Elastic Load Balancer health checks, Auto Scaling and other disaster recovery models, Leverage EC2 Create Snapshot API call to create snapshots of EBS Volumes on scheduled intervals.
* Data Protection: AWS Certificate Manager, AWS KMS, Snapshot Lifecycle Manager,
* GCP – Creating Sandbox, NPE and PROD environments in the org.
* Created IAM org polices and various google groups and service accounts.
* Created 150-200 projects using terraform along with VPC’s and subnets.
* Enabled IAP and provided ssh access very secured Way without port 22.
* Created many GKE clusters with enabling Istio.
* Enabled Appengine and other Cloud resources.
* Enabled and did initial POC’s for Big Query, Bigtable and spanner.
* Enabled stack driver with monitoring project with each portfolio (GCP-Folders)
* Created huge no of Firewalls with HopIndex-ip for any safe and secure connectivity.
* Scripted terraform for VPC’s, subnets, routers and various firewall rules for GCP.
* Scripted terraform for Vnets, subnets and various traffic rules for Azure.
* Solid experience on AWS Kubernetes clusters and management
* Scripted terraform for VPC, DNS peering.
* Worked on SingalFx, Data Dog, AWS and GCP monitoring tools.
* Very Strong experience on Akamai and Apigee proxies, caching features
* Heavily participated in various applications blocker issues and provided appropriate fixes.
* Good and hands-on on java and various scripting languages such as bash shell
* Expert in creating various slunk dashboards using DataDog.
* Developed data architecture for a variety of applications and business domains to support transactional (Oracle, Postgres, SQL Server, Cassandra, Redis, Memcache, etc.), data integration (Kafka/Messaging), and big data analytics use cases, working with enterprise architecture and application teams.
* Led the cloud repatriation/reverse migration of several critical applications, data stores, and data pipelines from the public cloud to on-premises environments, with the option to burst holiday capacity to the cloud, by analyzing the workload placement strategy for the applications, resulting in a 30% reduction in the average burn rate and resolving performance issues.
* Experience in different branching models, tagging and maintaining the version across the environments using SCM tools like SVN, Bit Bucket& GIT on UNIX.
* **Skills**: GCP, AWS, Azure and Java/JEE, Data Pipelines, Storm, Spark, PCF,NoSQL DB (MongoDB, Cassandra, Neo4J, Redis), Kubernetes, Terraform, PowerShell, Ansible, Database Design, Spring, REST Services, Apache Camel, Oracle, Unix, Linux, Node.js, Angular.js, D3.js, Maven, Monitoring tools datadog, Splunk and Dynatrace.

**Devops Architect Kohls, USA**; Dec 2014 to July 2019

* Developed immutable dockized architecture design, associated delivery pipeline design, and full hands-on build-out of environments for Kohls-Ecommerce with multi-million users in GCP /AWS Container Service. Heavy use of cloud and “DevOps” principles. Heavy thought leadership and training. Research and selection of technologies. Developed High available durable environments from DEV-QA-PERF-PREPROD\_PROD.
* Owned and created System architecture, Data flow - Integration requirements, NFRs, Any specific component or versions.
* Scripted terraform for VPC’s, subnets, routers, and various firewall rules for GCP.
* Created GKE various clusters for different application.
* Developed single click deployment tool using python/Django and terraform, which will help to activate/passivate cloud components.
* Delivered 3 huge projects K-Link, KDX and PMDM with automation in developing, deploying and 24/7 monitoring Alerts.
* Expert in creating various slunk dashboards using Data Dog and Dynatrace
* Capacity Planning, Sizing, Cloud Evaluations, PaaS provisioning Cloud Platform, Kubernetes, used extensively Hashicorp technologies, Terraform script templates, Consul as a discovery service, Vault for secured credential storage, Auto-scaling, Multi-region Mongo, MYSQL, Kafka-Broker, Radis, Zookeeper
* **Skills**: Java/JEE, Algorithms, Hadoop Stack, Data Pipelines, Storm, Spark, NoSQL DB (MongoDB, Cassandra, Neo4J, Redis), Kubernetes, Terraform, PowerShell, Ansible, Scala, Python, Zookeeper, Pig, Hive, Kafka, ETL Tools, Elasticsearch, Data Modeling, Database Design, Spring, REST Services, Apache Camel, Oracle, Unix, Linux, Node.js, Angular.js, D3.js, Maven

**Rest of the projects**

* Application Architect, Wellsfargo.com; July 2012 to November 2014
* Release Management Tools Lead, Paypal.com; July 2010 to June 2012
* Solutions Architect, Deloitte, CCMSV4-CALIFORNIA COURT CASE MANAGEMENT SYSTEM –AOC; October 2008 to April 2009
* Tech Lead, SitaCorp, New Jersey, Client Petro Canada; September 2007 to September 2008
* Senior Java Lead, Deloitte, Government of CA, March 2007 to September 2007

**Application Architect, Wellsfargo**, USA; July 2012 to November 2014

* Worked part of Digital services Team as Development and DEVOPS Lead and worked on genesis plugins for cicd and certified Artifactory cutover from nexus, did apache automation and developed hiradata part. Of puppet automation.
* Skills: SOA-based J2EE using Java 5, JSF, WebSphere server JSR 168 and JSR 286 Portlets, SOAP, DB2, portlets, inter –Portlets communication, GWT, SOAP and other XML transport protocols, custom jdbc driver
* Designed and Developed the Front-End using Spring (Form Controllers, Validator, Handlers, Model Objects and View Resolvers). POC of the front-end using Java Server Faces (JSF).
* Developed the persistence layer by integrating with Hibernate. Created Object to DB modeling. Implemented Optimistic Locking for Create and Update. Configured Secondary EHCache for read only Reporting features.
* Capacity Planning, Sizing, Cloud Evaluations, IaaSand PaaS provisioning
* APM Tools– Intuitive, Data Dog, Nagios XI, HTop, Dynatrace, AppDynamics
* Memcached
* Multi-tenancy on IBM Soft Layer IaaS
* Skills: Java/JEE, Data Pipelines, Python, tomcat automation, Database Design, Spring, REST Services, Apache Camel, Oracle, Unix, Linux, Maven

**Release Management Tools Lead, Paypal, USA; July 2010 to June 2012**

* Built Infrastructure, Continuous Integration, Continuous delivery/deployment pipelines and workflows using Jenkins
* Using PowerShell with AD integration
* Coordinated with offshore development team in setting up offshore development environments (local SVN and Maven repository, Tomcat HTTPS server, Local Oracle 10 DB server)
* Prepared design/impact analysis document for dashboard-webpage for displaying job processing summary to improve its performance. It was implemented by caching frequently used data into java cache data-structure in place of multiple web-service calls which overloads server. Also did code review and integrated the code developed by offshore team.
* Designed the content-processing workflow for new Android device. The workflow was defined as set of executor-beans configurable using spring dependency injection. Led the development-team (offshore) till the production and was involved in implementation, code review, writing Junit test cases and defect fixes.
* Design and developed JSP page for customer support activity for existing product in spring MVC and struts2 framework.
* Involved in production support and defect fixes and coordination with offshore team.
* Release management Tool development; Release process strategies; 24/7 support

DevOps Lead, Macys,USA; April 2009 to June 2010

* Worked on CI integration, Created maven pom files for all macys.war, macys.ear, Bcom.war, bcom.ear, Managed CI builds for all users of Macys. Worked with Release Management team for each release Worked on different cloud environments for development as well as QA builds Worked as java Lead for Registry & Flexible templates
* Skills: Core Java 1.6, JSP 1.2, Spring 3, WebSphere, Jetty, JUnit, Eclipse3.1.2, DHTML, JSON, Ajax Ext 1.1 Toolkit, JavaScript, CSS, XML/XSLT, JavaBeans. Maven, Jenkins, Hudson, Nexus,
* Code reviews and analyzing with find bug/sonar tools
* Mavenization of All MCOM, BCOM and Midtier applications
* Creating HUDSON jobs and maintaining them
* Uploading artifacts and maintaining of Nexus Server
* Writing a generic selenium web driver for all OS based browsers for test automation
* Written Queue/Topic based JMS components for different module of the product
* Skills: Java/JEE, SOA, REST Services, Hadoop, Hive, Pig, HDFS, Zookeeper, NoSQL Database, Big data processing, ESB, Android, Mobile Web, Spring, WebSphere Message Broker, DataPower, Node.js, Angular.js, Express.js, MongoDB, Pentaho, Informatica, IBM DataStage, Selenium, Appium

**Solutions Architect, Deloitte, CCMSV4-CALIFORNIA COURT CASE MANAGEMENT SYSTEM –AOC; USA,October 2008 to April 2009**

* Project Description: CCMS application provides seamless integration with courts and other state government offices like DMV, Police department based on cases. It also provides the data exchange among all departments. CCMS-V4 allows for searching related cases based on appropriate security level access and technical set-up design through the CCTC and courts with local deployment. A statewide data warehouse connecting all installations of CCMS-V4 will allow for cross-Court searches. Venue transparent filings will capture only the absolutelynecessary information at the alternate court, then directing the filing to a “clerk review” queue at the court or jurisdiction. It is expected that document scanning, and the remainder of data entry will be completed at the court of jurisdiction. It also generates the instant forms and reports based on the judgment in the court room. The ISB infrastructure, framework components and common services are pre-built and maintained by the AOC.
* Drools Rule Engine: MOCS validation framework is developed using Drools rule engine
* Skills: Core Java 1.5, JSP 1.2,Struts 1.2.9,GWT,SUN IDM,SAML,SOA,TIBCO Enterprise serviceBus,UML,Spring-wiring,JMS,EJB3.0,Web Portal, Web services(WSSDL),SOAP,REST ,Adobe Life Cycle ES,Oracle 10g,DB2,LDAP,Tomcat 5.1 , JSR 168 and JSR 286 Portlets, IBM-RAD, WebSphere Portlet Factory, IBM WebSphere, JUnit, Ant, Eclipse3.1.2, DHTML,JSON, Ajax Ext 1.1 Toolkit, JavaScript, CSS, XML/XSLT, JavaBeans, Adobe Flex, JCART, Magicdraw, Sun Identity Manager
* Capturing the requirements from functional teams.
* Design high-level and low-level design documents using design tool Magicdraw.
* Developing POC based on design and filling the design gaps.
* Coding of complete BAIL component of MOC system
* Developed common APIs and Utilities
* Design and development of MOCs FA events.
* Coded for Common java SQL manager utilities
* Implementation of SSO with SAML by using SAML SOAP Binding, HTTP XXX bindings
* Selenium configuration for web application and writing dynamic test cases.
* Prepared JUnit Test scripts for Assembly Test and JUnit test conditions as per the requirement document and use cases.
* Using JCART and measuring coding level memory leaks.
* Inspected the Process Memory parameters, thread parameters and virtual memory parameters.
* Checked and optimized data base queries.

**Solutions Architect, SitaCorp, New Jersey, Client Petro Canada; September 2007 to September 2008**

* Developed Java based application to interact with Petro Canada SAP system using JCOs and automated their workflow in portal in order to reduce the process time
* Sojourner™ Mobile Solutions, Powered by SAP Net Weaver®, empower mobile business users, IT administrators and business professionals across the globe in managing their business through mobile applications. This application helps the petro Canada clients to process their orders and any business request using mobile SMS (Push and Pull types) messages.
* Skills: Core Java 1.4.2,AJAX Ext Toolkit, JSF, JSP 1.2, Struts1.x , GWT,SUN IDM, WebSphere server JSR 168 and JSR 286 Portlets,UML, Spring MVC,J2ME,JMS, EJB, web Portal, sap portal, Adobe Flex, ,Web services , Adobe Lifecycle ,Oracle 10g,DB2,LDAP,PKI,Tomcat 5.1 Net weaver server , JUnit, Ant, Eclipse3.1.2, DHTML,JSON, JavaScript, CSS, XML, JavaBeans, GWT 1.5,Unix(OS),Perl script ,Make file ,BAPI,RFC , WebInspect
* Analysis & High-Level Design for Use cases to create/maintain Individuals, User Roles and Login AUC (Used UML Class Diagrams, Sequence Diagrams and Deployment Diagrams).
* Web portal development using WebSphere and integration with Sap Portal contents.
* Assess and assist WebSphere Portal Server implementation team. Besides, develop, maintain and enhance data driven JSR-168 standard Portlets using WebSphere Portlet Factory.
* User Configuration & Management using LDAP server.
* Design low level design document.
* Developed custom fonts for the player.
* Developed several apps using Player.
* Implementation of SSO with SAML by using SAML SOAP Binding, HTTP XXX bindings

**Senior Java Lead, Deloitte, Government of CA,USA March 2007 to September 2007**

* EAMS technology will improve DWC and Workers' Compensation Appeals Board (WCAB) ability to quickly resolve claims by enhancing responsiveness to claim filings, employing more efficient and effective calendaring to ensure all dispute parties are available to meet with judges, and improving ability to track case documentation.
* Skills: SOA-based J2EE using Java 5, JSF, WebSphere server JSR 168 and JSR 286 Portlets, SOAP, DB2, portlets, inter –Portlets communication, GWT, SOAP and other XML transport protocols, custom jdbc driver
* Designed and Developed the Front-End using Spring (Form Controllers, Validator, Handlers, Model Objects and View Resolvers). POC of the front-end using Java Server Faces (JSF).
* Developed the persistence layer by integrating with Hibernate. Created Object to DB modeling. Implemented Optimistic Locking for Create and Update. Configured Secondary EHCache for read only Reporting features.
* JMS Publish and Subscribe messaging implemented for log Manages application
* Responsible for customer interactions and understanding the requirements.
* Responsible for developing procedures and coding standards.
* Implementation using Java, EJB, DTO’s, Models and Hibernate mapping.
* Implementation of SSO with SAML by using SAML SOAP Binding, HTTP XXX bindings
* JSF used for admin client user interface, CSS used for all screen look & feel, AJAX is used for dynamic content

Education:

Masters in Technology, Ranchi University

Bachelors in Technology, National Institute of Technology