Govindarajan

**Specialist Master / AWS Architect**

Charlotte, NC

Summary of Experience and Qualifications:

* Over 18 years of industry experience, strong innovative and technical background.
* Strong **application build/architecture** background with a blend of cloud infrastructure experience
* Experienced in architecting, building and migrating applications on **GCP**/**AWS cloud**
* Experienced inarchitecting **cloud native containerized microservices** with **docker/K8S, helm**
* Rich experience in architect, design and development of voice skills on **AWS Alexa** platform
* Expert on automation with **Terraform**, **Ansible, Python, NodeJS, CloudFormation**
* Experienced in **TDD, Continuous Development, Continuous Integration, Automated Testing, Continuous Deployment**
* Extensive experience architecting, designing and building applications on **Java/JEE, AWS, DataPower, Agular JS, JAX-WS, JAX-RS, Microservices, (Spring Boot, Spring Security, Dropwizard), MongoDB, MySQL DB, Apache Ant, Maven, Junit, Splunk, OpenAM, ClamAV**

Certifications and Professional Affiliations:

* **AWS Certified Solutions Architect – Professional.**
* **Azure Certified Administrator.**
* **Azure Planning and Administering Microsoft Azure for SAP Workloads.**
* **Microsoft Azure IoT Developer.**
* ATAData Certified Associate.
* Sun Certified Java Programmer.
* **IBM Certified Solution Implementer - WebSphere DataPower SOA Appliances Firmware V3.8.1.**
* SOASchool Certified SOA Professional.

Project Experience:

**Deloitte, Charlotte, NC**  June 2019 - till date

AWS Architect

* Architected the next-gen platform to breakdown the existing monoliths to micro-services using cloud native technologies like docker and EKS
* Lead the offshore/Onsite team to build and deliver the platform.
* Liaison between the developers and the client to understand the business requirement and transform in to technical requirements
* Architected and built a POC Order-to-Cash workflow using AWS step functions and Lambda functions.
* Evaluated various Integration Platform as a Service tools (Informatica Cloud Integration Services, Camunda BPM) by building POCs
* Built POCs to show cause authentication and authorization applications consuming MDM APIs using oAuth 2.0
* Built POC to containerize future state home grown order fulfillment application using docker containers on AWS ECS
* Analyzed the existing “Order Processing and Invoicing” application’s capability and provide recommendations on refactor vs re-architect vs retire
* Evaluated the current state storage solution (Alfresco) and provided recommendations for future state
* Analyze and advice on integrations toolsets available on AWS cloud platform
* Supported the Enterprise Architect in development of presentations and participation in key decision-making meetings
* Provide Subject Matter advice and support for Enterprise Architects
* Identified the new systems that will feed data to Data warehouse to maintain the status quo on the reporting needs.
* Analysis and inventory the list of integrations required to support the Order-to-Cash transformation effort
* Analyzed and mapped attributes required to support integration of Apttus with Zuora, ICM and home-grown Fulfillment application
* Helped build the future-state integration architecture for Order-to-Cash applications
* Helped build the future-state integration architecture for Account MDM, Product Master, CLM and Anaplan Territory Management application

**Ventech Solutions** - Manassas, VA Jul 2017 - June 2019

AWS Cloud Architect

* Helped government contractors lift/shift, Refactor/Re-architect migrate applications from on-prem to cloud
* Architected and built CMDB for cloud using AWS config, AWS SNS, SQS, Java, Spring boot, cloud native services using docker, k8s.
* Architected and built security scanner dashboard to scan EC2 instances using spring boot, AWS SSM and OSCAP tool.
* Architected and built batch reporting of EC2 instances inventory to security dashboard using cloud watch, AWS SQS and spring boot.
* Created jobs for automated patching and provisioning of AMI using packer and Jenkins pipeline.
* Authored the Terraform script for automated provisioning of VPC, Subnet, Routers and peering connections.
* Created Ansible script for automated provisioning of EC instances, RDS instances, ELBs

### Ally Bank - Charlotte, NC Nov 2016 - July 2017

### AWS/Alexa Architect

* Architected the bot banking channel for Alexa and Google Home.
* Architected changes to the core banking service for integration with Alexa voice platform.
* Created POCs and demonstrating to the business.
* Architected and conceptualized the Alexa voice design and Interaction model, Strategized the development, testing and pilot strategy.
* Designed the Alexa OAuth integration model.
* Designed and developed the integration of the Alexa voice services (AWS Lambda) with backend core banking services.

### Jobcorps Development Center— Austin, TX Jan 2016 - Nov 2016

### AWS Solution Architect.

* Created and documented the solution architecture for all the projects.
* Architected, Designed and implemented the RESTful service on spring boot and the AngularJS front end.
* Installed and configured OpenAM for OpenID Connect/OAuth and TOTP.
* Created the Spring security client to connect to OpenAM to authenticate/authorize.
* Setup Hardware VPN between the data center and AWS VPC.

### CSRA – Baltimore, MD May 2014 - Jan 2016

Architect/Lead-Cloud Developer

**Authorization and Role Management System**

* Authored the architecture and the design documents.
* Designed and developed the backend JAX-RS services for the Common Core Services, Email Notification Service, Organization Management Service, Reminder Notification Service.
* Designed and developed the error hander service to accept error notification from all the service components.
* Developed Proxy Service and Business Service on OSB for my services.
* Propose and present solution architecture to the review board.
* Designed and Authored the service specification document.
* Configure the services on the appliance.
* Create and enforce the WS-policy on the appliance.
* Installed and configured C-ICAP with ClamAV.
* Configured the Anti-Virus action to check for virus on all incoming attachments.
* Developed the XSL to check for the freshness of the message.
* Developed the XSL to write audit message to a SOAP service.
* Configured LogTarget to send logs to Syslog server.
* Migrating services across environments.
* Configuring and managing certs for SSL transport.

**Major Home Improvement Store** – Mooresville, NC Mar 2013 - Mar 2014

### Senior Datapower Integration Consultant

The e-commerce services on the Datapower appliance hosted on the Verizon cloud servers acts as the front facing service for the calls originating from dot com, mobile and stores.

* Designed and developed the multi-tenant Multi-Protocol Gateway framework to host all the integration services.
* Configured the services to enable integration with various in-house and third-party applications.
* Created XSLT’s for transformation between multiple integrations.
* Configured the SSL proxy profile to enable SSL communication on the front and back-end of the MPG.

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**Walgreens** - Columbia, MD Mar 2012 - Mar 2013

Senior Datapower Consultant

HealthCloud, Campaign Management, Pharmacy Upload, Loyalty are shared infrastructure platform for data and business services hosted on the client's network. All data from client's point-of-sale flows through Datapower and routed to back-end ESB services.

* Created scripts to manage the appliances remotely.
* Setup monitoring of DP events/metrics on Tivoli dashboard and setup the services to send SNMP events to Tivoli
* Designed and developed orchestration among enterprise business services and services on the trading partner's site.
* Designed and developed the logging utility service on DP. All the DP services use the logging services to log the transaction details to MQ.
* Designed and developed the document caching utility service on DP. All the services which uses the externalized configuration files on DP using the caching utility service to retrieve the cached documents from DP.

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## **TIAA-CREF** – Charlotte, NC Jan 2011 - Mar 2012 Senior SOA Consultant

Application was developed to provide document composition services to over hundreds of client’s internal applications. The document composition engine was provided with an MQ interface for batch processing and a SOAP interface for ad-hoc requests.

* Developed overall solution architecture based on business requirements
* Oversees project data and interface strategies
* Designed and developed the web service interface for the composition engine.
* Designed and developed the MQ interface for the composition engine
* Designed and developed the Local Print Service to print the composed documents to network printers using CUPS/SMB.
* Created service client to invoke HP’s document composition engine (EWS) as web service with JAX-WS.

## **Bank of America** – Charlotte, NC Mar 2010 - Jan 2011

### Java Architect

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The project was initiated to provide a consolidated view of the client’s funding related long-term debts and to enhance existing reporting and reconciliation process and to enable debt issuance and reduce liquidity risk.

* Designed and developed the batch job to extract the debt positions booked into the back-office trading system called Summit into the DIW system. These positions will be reconciled against the positions in the General Ledger. Setup the job to be run daily in Autosys.
* Designed and developed the batch job to extract the FX rates from the legacy system to the new system. These rates are used to calculate various amounts in the systems from the debt issued currency. Configured the job to be run daily in Autosys.
* Designed and developed the MQ interface including setting up the JMS servers, the local and remote destinations to send messages and receive acknowledgement back from the back-office systems.

**TIAA-CREF** – Charlotte Mar 2008 - Mar 2010

### Java Architect

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Erisa represents the financial statement of all plans. The assessment of the client’s current report infrastructure concluded that the current tactical solution in place will not satisfy current performance challenges, data quality issues in view of the impending regulatory compliance for plan reporting for year 2008.

It was decided to replace the existing reporting infrastructure with a blend of custom build application and OBI/BIP, which will dramatically reduce the time taken to produce statements and support e-filing

* A centralized workflow component was built on OBIEE to track report generation, pass/fail controls and report delivery. Customized these dashboard pages to contain custom filters like drop-down boxes and multi-select boxes using JavaScript and JSP for write back columns.
* Designed and developed BI Publisher reports for bursting to local folders.
* Deployed and configured BI Publisher application on various environments.
* Architected and built the process automation to streamline and automate the report generation processes end-to-end.
* Configured WebLogic JMS queues and developed MDB to support batch processing of reports.
* Designed and developed the web service client to schedule and burst reports on OBI/BIP.

## **TIAA-CREF** – Charlotte, Mar 2008 - Mar 2010

### Web services Architect

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### All reporting applications at the client have created several reporting repositories and duplicate reporting solutions. As a result, client decided to source their reporting data needs through EDW. The limitation with current actuates reporting forced the business to suffice their reporting needs through OBI/BIP suite.

* Architected, designed and developed the integration layer which couples the front-end portal with OBIEE.
* Produced a Proof of Concept to demonstrate implementation of critical requirements.
* Designed and developed web services which extract XML data from OBIEE, feed data and template to BIP FO engine to produce reports of various formats like HTML, PDF, CSV, EXCEL.
* Designed and Developed complex backend service for 4 million users, with millions of transactions. The reports could be run for monthly or quarterly with over 5000 pages of PDF.
* Designed and developed the MDB for asynchronous batch reporting. These are the reports which run for longer time and the user will be notified by mail on the completion of the report.

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### TIAA-CREF – Charlotte Mar 2008 - Mar 2010

### J2EE Architect

### The IVR project was to replace the existing proprietary per phonics IVR with open standards based IVR. The solution was to automate mundane tasks thus freeing call center agents to concentrate on more complex transactions.

* Developed the Customer transaction web service. This service acts as a middle layer orchestrating transactions, applying business logic to the raw data retrieved from the fine-grained services and provides a standard interface for IVR to interact with.
* Developed the Personal Annuity service which would expose Personal Annuities data by orchestrating stored procedures.
* Developed the LIIF service which would expose Life Insurance data by invoking AS400 stored procedures.
* Developed the DA-PA Fund performance service which would expose fund performance from Oracle DB.

## **General Morots** – Detroit, MI Jul 2007 - Mar 2008 Java Developer

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### The project was to identify various existing services which were to be converted to SOA based services. Two services were migrated to SOA platform.

### The business process involved orchestrating multiple services to check entitlement, authorize and charge credit card, recharge account, write audit and asynchronously send response back to the client.

* Authored the System Requirement Specification documents
* Authored the Use Case Realization Specification document
* Authored the Software Design Document.
* Involved in architecture and designing of the services
* Authored the service mapping specification
* Created the workflow for business process.

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## **Discovery Communications**- Silver spring, MD Jan 2007 - Jul 2007

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### Client’s Challenge program is an eight-week health and fitness program. The Challenge lives on as a comprehensive fitness and weight-loss challenge that provides the tools to customize and keep track of user’s meal plan and fitness plan. This application integrates with various business partners to send and receive data.

* Created an asynchronous interoperable web service client, to send real time leads to a lead processing application using axis2.0, JMS and MDB.
* Created a scheduled batch process to send daily leads as reconciliation process using quartz scheduler.
* Created the integration web service to receive fitness activities of user from business partner.
* Implemented WS-security using WSS4j/Rampart. Implemented addressing using axis addressing module. Messages were sent over SSL. Configured trust store for SSL.
* Created ftp client to send list of persons who opted out of the fitness centers.
* Recipes for the meal plan are received from a business partner via FTP. Implemented ftp client to poll an ftp site to retrieve the recipe and load them to database. This was scheduled to run every month using quartz scheduler.

Education:

## Bachelor of Science (Mathematics) - University of Madras, Aug 1992 - Sep 1995

* Master of Science (Information Technology) - Karnataka Open University - Jan 2005 - Dec 2006