**LINGAMURTHY MACHARLA**

*Java Full Stack Developer*

**lingamurthymacharla321@gmail.com**

**Phone: +1 (945) 226 1432**

**Professional Summary:**

* Over all 12 years of professional experience in Analysis, Design, Development, Testing, Implementation and Production support.
* Expert in **ForgeRock OpenAM, OpenIDM, OpenDJ,** **Core Java,** **Servlets, JSP, JDBC**, **Spring Boot**, **Hibernate, Rest Web Services, DevOps**.
* Experience in upgrading ForgeRock on-premises environment to **ForgeRock** **Identity Cloud**.
* Expert in Setup Open AM, IDM and configuring external OpenDJ.
* Expert in defining and implementing Intelligent authentication journeys in **ForgeRock** **OpenAM** using Authentication Trees and Writing custom functionalities for Scripted Decision nodes.
* Experience in on-boarding client applications using **OAuth2, SAML** protocols.
* Expert in developing **OpenIDM** Custom endpoints, Policies and configuring Connectors and mappings.
* Experience in writing LDAP queries to fetch/modify identitiesin **OpenDJ.**
* Experience in performing reconciliation to Sync Identities between external systems to FR.
* Expert in developing web applications based on **MVC**, **SPA Architectures.**
* Expert in implementing Rest APIs using **Spring Boot**, **Node JS** and deploying in **Micro Services** environment**.**
* Developed web applications using **Spring** and **Hibernate** frameworks and deployed in cloud platforms.
* Experience in implementing **Cache mechanisms** to reduce calls between API servers and Data Base systems.
* Expert in using **Java** **Selenium Web Drive**r to interact with the target websites for automation testing.
* Excellent skills in using **Amazon** cloud services like **EC2**, **ECS, ECR,** **RDS,** **S3**, **SQS, Secrets Manager,** **Lambda functions**.
* Experience in front-end technologies such as **Vue JS,** **Angular, jQuery, JavaScript, HTML, CSS.**
* Hands-on experience in implementing E2E services by working at front-end, back-end and Database layers.
* Expert in building docker images and running in **Docker** containers on Cloud.
* Experience in **Kubernetes cluster**, accessing the pods and fetching the Logs for analysis.
* Hands on experience in **Active MQ, Kafka** Message queue mechanisms**.**
* Experience in writing **Knex** scripts for creating Database tables.
* Experience in writing **Xpaths** to interact with DOM elements in automation jobs.
* Expert in creating **Jenkins** pipelines, build configurations and deploying on **AWS**.
* Experience in working with source code management tools like **GitLab, Git, Bit Bucket**. Creating new branches, merging branches and resolving merge conflicts.
* Expert in Deploying Web applications on **Tomcat** Web Server.
* Work Experience in **Agile** methodology, **JIRA, Confluence**.
* Knowledge in creating **EKS** cluster with desired worker nodes.
* Knowledge in **Terraform** scripts for provisioning cloud environment.
* Knowledge in **Hadoop technologies** and it's components like **HDFS** and **MapReduce** concepts.
* Knowledge in Big Data tools like **Pig, Hive and Sqoop**.
* Good analytical, problem solving, Interpersonal, presentation skills.
* Strong ability to perform as part of team and exceptional ability to learn new concepts.

**Technical Skills:**

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| Languages | JAVA, Python & SQL |
| ForgeRock (IAM) | ForgeRock Open AM, Open IDM, Open DJ & Identity Cloud |
| Frameworks | Spring Boot, Hibernate, Hadoop, JUnit, Log4J, Selenium Web Driver, Spring Cloud, Spring Frameworks |
| JEE Technologies | JDBC, Servlets, JSP, JAX-WS, JAX-RS |
| Cloud Technologies | AWS EC2, S3, ECR, ECS, EKS, Lambda, SQS, RDS, Secrets Manager, Cloud Watch, Terraform, Kubernetes |
| Big Data Eco Systems | Pig, Hive, Sqoop |
| Technologies  | NodeJS, Angular, VueJS, jQuery, Ajax, JavaScript, Google Charts, JSON, Xpaths, XML, XSD, XSLT, HTML, Bootstrap, CSS, Kafka, Active MQ, Selenium |
| IDE’s | Eclipse, Spring Tool Suite (STS), VS Code, Sublime, MySQL Workbench, PgAdmin3 |
| Databases | Postgres, MySQL, Oracle10g, MS SQL Server |
| Version Control System | TFS, GitLab, Git, Bit bucket |
| Tools | Docker, Maven, Jenkins, SonarQube, Find Bugs |
| Web Server | Apache Tomcat |
| Operating Systems | Windows, Linux |

**Project #1: Oct' 2021 to Mar' 2024.**

Role : Sr. Java Full Stack Developer

Project Name : ForgeRock Cloud Migration

Client : Bupa Insurance, UK

Technologies : Forge Rock Identity Cloud, Java, Spring Boot, Java script

Database : MS SQL Server

Cloud Technologies : Azure

DevOps tools : TFS, New Relic

The existing Bupa ForgeRock servers are running on Azure cloud environment. Migrating the existing infrastructure to Identity Cloud to enhance security, increase customer engagement and to improve operational efficiency. This ForgeRock Identity cloud platform provides its own cloud services for the Access Management and Identity Management life cycles. That will reduce maintenance efforts and provides better development environment and security. This cloud platform has hybrid UI where AM & IDM services can be consumed for implementing Journeys. Identity cloud provides history of deployments which can be useful to track and rollback to the previous builds.

**Roles & Responsibilities:**

* Performing analysis on the existing AM and IDM configurations.
* Capturing custom attributes from existing IDM and defining equivalent attribute in Identity cloud.
* Defining environment variables and secrets which can be consumed in scripts.
* Creating Journeys using trees and implementing custom functionalities for scripted decision nodes.
* Implementing IDM custom endpoints as per the requirements.
* Developing Rest APIs to expose the services to external systems.
* Set up RCS servers to establish connection between Identity Cloud and on-premises OpenDJ and MYSQL database servers.
* Implemented Intelligent Authentication Journeys using ForgeRock Open AM trees.
* Implemented Multi factor authentication functionalities like Security questions and Mobile number verification in self-services.
* Developed ForgeRock Open IDM custom endpoints and Configured IDM connectors to sync Identities between IDM to Open DJ.
* Implemented Rest APIs to call CRM notification services for sending mail, SMS notifications to customers.
* Built CRM match modules to identify user in CRM systems and fetching the use profile data to store in ForgeRock systems.
* Creating new encryption keys and re-encrypting Password, Pass codes with new keys.
* Reviewing the Figma design flows and creating backlog items accordingly.
* On boarded client applications through OAUTH2 protocol.
* Deployed AM, IDM, DS components in Azure VMs.
* Generated Power BI reports by feeding data from web APIs and Databases.
* Written shell scripts to automate identities clean up in Non-Prod environments.
* Written Microsoft SQL server queries to retrieve required data from Database.
* Involved in Bug triage discussions to identify flaws in external systems.
* Performed server logs analysis for finding root cause and fixing User reported issues.

**Project #2: Sept' 2018 to August 2021**

Role : Java Full stack Developer

Project Name : OneApp IDP (Toyota, Lexus Mobile App)

Client : Toyota Motors North America, USA

Technologies : Forge Rock AM, IDM, Open DJ, VueJS

Database : Postgres

Cloud Technologies : AWS, Kibana

Monitoring tools : Data Dog

DevOps tools : Kubernetes, GitLab, Docker

OneApp provides services like car remote start/stop, Vehicle Location, Fuel reading, Paid subscriptions. CT service require a standard based modern identity provider. OneApp migrated from Azure AD to Forge Rock modules for providing better identity management and MFA services. ForgeRock has frameworks for Authentication, Authorization, Token services. When a User registration is done at that time User will receive an Activation code to given e-mail ID. When User submits that activation code then the Registration will be completed. That User identity will be stored in Open DJ, IDM. OpenAM handles the Authentication flows during User sign-in. IDM interacts with multiple User stores like Azure AD for the legacy users data seeding which were stored in Azure AD. IDM will uplift the legacy users from Azure AD to IDM.

**Roles & Responsibilities:**

* Worked with OpenAM Authentication Trees for defining the Authentication flows.
* Worked with OpenAM script Decision Nodes for providing customized functionalities.
* Worked with OpenIDM custom Nodes, endpoints.
* Performed Reconciliations to sync Identities from IDM to DJ.
* Experience in working with Userstores, executing LDAP queries for data analysis.
* Performed CRUD operations on Identities by using Forge Rock REST APIs.
* Setup Forge Rock Open AM, IDM on local environment.
* Performed deployments on lower environments through GitLab CI/CD pipelines.
* Experience in GitLab for deriving new feature branches and deploying on DEV environment.
* Performed Identities clean up activity in Open IDM, Open AM, Azure AD, OCPR.
* Involved in documentation for assigned tasks and sharing across Team members.
* Participating in Discussions & Implementations with On-shore and Off-shore team members.
* Developed messages API for sending messages payload to Head Unit. That messages payload contains information about Campaign and Dealer details.
* Developed call-dealer API, when a User attempts a call to Dealer a pop-up screen will be appear with YES, NO options. When User select either YES/NO option that time call-dealer API will be invoked and stores timestamp and YES/NO option value in database.
* Created Knex scripts for creating new tables and altering existing tables in database.
* Creating AWS S3 bucket events to send queues to AWS SQS.
* Developed Lambda functions and attached to AWS SQS to process the queue messages.
* Defined Node cron jobs for running services in daily base.
* Generating download reports to track Vehicles-messages history.
* Configuring AWS secrets for storing confidential data in AWS secrets manager such as database details that are used by Node Js and Spring Boot modules.
* Deploying HUM Server in AWS EC2 instances and migrating to ECS docker containers.
* Building Docker images and running in docker containers.
* Worked with AWS SDK for accessing files from S3 buckets, getting secrets from AWS Secrets Manager.
* Developed DAO Layers using Spring Jdbc Template.
* Created Spring profiles in yml configuration for different environments.
* Developed Service for IMEI Look-up, fetching IMEIs for VINs.
* Developed Scheduler for placing batch jobs for getting IMEIs.
* Created history tables and storing IMEI Look-up response data for tracking.
* Generating VIN-IMEI availability reports and uploading into S3 bucket.
* Developed services to connect ftp servers and accessing files.
* Developed AWS Lambda functions and attached to AWS SQS.
* Created AWS S3 bucket events and sending queues to SQS.
* Configured AWS Secrets for DB details, ftp server information in AWS Secrets Manager.
* Developed Utilities to fetch DB details from AWS Secrets Manager for configure Data Source.
* Created Models, defining properties matching with Json response.

**Project #3: June 2016 to Sept' 2018.**

Role : Java Developer.

Product Name : Finovera ([https://www.finovera.com](https://www.finovera.com/))

Client : Fiport , IN

Environment : Core Java, Spring, Hibernate, JSP, Selenium Web driver, AWS

Technology : Kendo UI, Angular, jQuery, JavaScript, CSS, Ajax, json

Database : MySQL

Web Server : Apache Tomcat, Spring Boot

**Description:**

Finovera is a One click login to all our accounts including utilities, financial sites and more. User can have multiple Site logins. one site login can have multiple Accounts. So, we are fetching all the Site logins accounts data from their Providers sites. This application supports 1000s of providers like Utilities, Investments, Insurance, Loans, Banks, Credit Cards, Cables etc. All the updated information will be shown in their respective Accounts, like Amount due, Last payment Date, Last Payment Amount, Due date etc. for Utilities, Beginning Balance, Ending Balance for Banks, Minimum Due, Current Charges for Credit Cards. Collects a 12-month history of bills and statements, and automatically downloads.

**Roles & Responsibilities:**

* Creating Spring Controllers, Components and user defined exceptions for new Services as per requirements.
* Creating JSP views to show dynamic data to end user.
* Implemented classes for selenium web driver to interact with target web sites to fetch required data for processing.
* Identifying and resolving issues of failed jobs by fetching log files from Amazon web services.
* Resolving Customer reported issues to analyze and to find feasible solution.
* Tracking Job status of External Aggregator (**Yodlee**) and comparing with our Job status.
* Raising issue to Yodlee when response data from external aggregator differ from our Job data.
* Deploying Application on Production Server and performing sanity test.
* Writing test cases using JUnit and Selenium framework.
* Involved in fixing Bugs which are reported by QA team.
* Performed production deployments using manual and automated rolling fashion.
* Performed application backup activities and restore strategy if need to rollback.
* Performed code reviews and fixed SonarQube violations.
* Coding to Initiate Payments Job using Chrome Driver.
* Writing Controllers, DAO Layers to store Payments data into Database.
* Creating Entities for Payment Service like Payment, PaymentJobStatus, CardDetails, Bank, Payer, Payee etc.
* Analyzing, implementing different Payment scenarios like Schedule Payments, Immediate Payments with methods as ACH, Debit Card & Credit Card Payments.
* Coding to make Payments at Bill Matrix sites by feeding required data.
* Analyzing and Defining Elastic Fields for Payments.
* Maintaining Internal Tracking Number for each Payment which is done by User.
* Scheduling Refresh Calls for Accounts to update Payments information.
* Interacting with the Users whose Payments Jobs were failed and giving complete analyzed report for the Payment failure.
* Developed Admin Console Pages for Payments to track failure payments.

**Project #4: July 2012 to May 2016.**

Role : Java Developer.

Product Name : Payment Gate Way for Data Brains

Client : Data Brains, IN

Environment : Core Java, Spring, JSP, Selenium Web driver, AWS

Technology : Spring, Angular, jQuery, Selenium Web driver ,JavaScript, Rest Web Services, Json.

Database : MySQL

Web Server : Apache Tomcat.

 Led the development of a robust Payment Gateway system for Data Brains. Developed payment services by utilizing Java, Spring, Rest web services and AWS. Orchestrated frontend enhancements with Angular, jQuery, and JavaScript, while ensuring quality through Selenium Web driver automated testing. Managed MySQL database operations and facilitated seamless deployment on AWS. Collaborated within a cross-functional team, adhering to Agile methodologies, to deliver scalable and secure solutions. Continuously improved processes, documented code, and provided technical insights to drive project success.

**Roles & Responsibilities:**

* Developed and maintained the Payment Gateway system using Java, Spring, Hibernate, JSP, and other relevant technologies.
* Contributed to frontend development with Angular, jQuery, JavaScript, and JSP, focusing on UI enhancements and user experience improvements.
* Implemented automated testing using Selenium Web driver to ensure the quality and reliability of the system, creating and executing test cases to validate functionalities.
* Managed database operations with MySQL, including schema design, querying, optimization, and data integrity.
* Deployed and managed the application on AWS, setting up servers, configuring services, and optimizing performance for cloud environments.
* Collaborated within a team environment, communicating technical concepts to non-technical stakeholders and working with cross-functional teams to achieve project goals.
* Demonstrated problem-solving skills by identifying and resolving technical issues, optimizing code for performance, and implementing solutions to meet project requirements.
* Documented code, technical specifications, and system architecture, and prepared reports and updates for project stakeholders.
* Stayed updated with emerging technologies, attended training sessions, and continuously improved skills to enhance the efficiency and effectiveness of the development process.
* Adhered to coding standards, design patterns, and development methodologies such as Agile or Scrum, contributing to maintaining code quality and scalability.
* Conducted code reviews and provided constructive feedback to team members to ensure code quality, consistency, and adherence to best practices.
* Participated in the analysis, design, and implementation of new features and functionalities, considering scalability, performance, and security requirements.
* Supported production deployments, monitoring application performance, diagnosing and resolving issues, and implementing proactive measures to prevent downtime or disruptions.

**Education:**

* Master of Computer Applications from Osmania University in 2015.