**Sekar Marimuthu Ambalam**

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**Professional Summary:**

Over 17+ Years of Experience in IT Industry using Java & J2EE Technologies. A multi-skilled Java Technical Architect | AWS Architect with comprehensive experience in designing, developing, and implementing highly scalable, available, and robust solutions. Expertise in leveraging Java and related technologies to solve complex business problems across various domains. Possessing a proven ability to lead project teams to successfully deliver agreed upon solutions of the highest quality, often in complex and challenging customer environments. looking for a new and challenging solution architect position, one which will make best use of my existing skills and Extensive experience as Architectural design and developing in Java & J2EE, Microservice and AWS Cloud. In-depth knowledge of Design Principles, Object Oriented Programming, Application Modernization, Data Migration and Digital Transformation.

* Expertise in requirement gathering and **Analysis, Microservice Architectural Design**, plan, **Solution**, estimation, **Artifacts** and **High-Level Design**.
* Experienced in designing and developing multi-tier applications using **Java, J2EE** technologies. Strong experience in Core Java, **Collections, Multithreading & Concurrency**. Proficient with different relational databases.
* Solid development experience in **Spring, Spring Boot, Hibernates**, Web Application
* Experience in Design, build, and maintain **CI/CD pipelines** that deploy customers’ applications to cloud infrastructure while promoting security and cloud computing best practices.
* Use infrastructure as code tools to automate immutable infrastructure. Manage, configuration, administration, and maintain **AWS Services**.
* Expertise in Application Performance Management (**APM**) and Tuning and Code optimization and handled high volume of concurrent
* Experienced in deploying and configuring application into application servers like **IBM** **Web Sphere**, **Web logic, JBoss and Web server - Apache Tomcat, HTTP.**
* Expertise in Amazon Web Services **(AWS), Docker, Kubernetes, Fargate,EKS,ECS**.
* Excellent understanding of design patterns and **Microservice Architecture** and principles.
* Experience in Banking (**EBanking, Core Banking, CRM**) also having exposure in **Insurance, Finance,** Infrastructure, Cargo and Logistic Domains.
* Expertise in identifying **Problem Statements** and creating high-level requirements and solutions.
* Expérience to recommandant client value creation initiatives and implement industry best practices.
* Experience with **JMS**,**IBM MQ, Rabbit MQ, Solace, Kafka** and design separate exchanges and queues.
* Expertise in troubleshooting technical issues and **design flaws** and providing technical guidance to the team. Experience with authentication and authorization mechanisms for **API integrations**.
* Experience of RDBMS like **MS SQL Server, Oracle, MySQL, PostgreSQL.**
* Expertise in Implement **Security** best practices to protect sensitive data and ensure compliance with security standards and regulations.
* Experience in **Code Reviews** to ensure **Code Quality**, maintainability, and adherence to coding standards.
* Expertise to Design APIs to use **OAuth2** tokens for secure access and ensure the solution scales and performs efficiently under load.
* Experience working with **Unix/Linux** environments and set up monitoring and logging solutions like **Prometheus, ELK Stack and DataDog** to ensure system and application health and performance.
* Experience in utilize tools like **Terraform, AWS CloudFormation** **Template** to create design, test, and maintain reusable **IaC** for provisioning cloud resources and infrastructure.
* Expertise for design experience in **REST API** anddefining data models, repository layer, creating service and controller layers using spring boot.
* Worked on the networking infrastructure, including **VPC** configuration, subnets, routing, and connectivity (VPN).
* Experience in monitoring and logging solutions using **AWS CloudWatch**, AWS CloudTrail, and third-party tools to ensure visibility into system performance and security.
* Experience for Analyze the application's health and performance, recommending solutions for improvement.
* Expertise in create and maintain documentation for architecture, processes, and best practices. Provide training and guidance to development and operations teams.Experience with the Code Quality, Security, and Static Analysis Tool with **SonarQube.**
* Worked with version control systems like **SVN, GIT, GitHub, Bitbucket** etc.
* Experienced in No SQL database like **MongoDB** and **DynamoDB.**
* Worked with the **DevOps** team on process improvement with enterprise IT cloud management capabilities and ensure that AWS environments meet regulatory and compliance requirements and implement **Governance Policies** and procedures.

**Technical Skills**

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| --- | --- |
| Development Platforms | Eclipse, NetBeans, JDeveloper12c, IntelliJ, RAD |
| Operating System | Windows 10 & 11, Unix, Linux |
| Application Server | JBoss 6.0, IBM Web Sphere 8.5.5, Oracle WebLogic 12c |
| Java | JDK 1.8 & 17, JDBC |
| Application Framework | Spring 4.x, Hibernate 3.x, JPA, Spring Boot 3.x and Netflix, Hystrix,Resilent4j |
| Integration Layers | Web Service SOAP, REST |
| Cloud Provider | AWS and Pivotal Cloud Foundry |
| Configuration Management  | SVN, Git, GitHub, Bitbucket |
| Building Management  | Maven, Ant, Gradle, Jenkins |
| Containerization | Dockers, Kubernetes, EKS ,ECS,Fargate |
| Performance Engineering | Dynatrace, JFR, IBM Heap Dump, Thread Dump,DataDog. |
| Code Quality  | Sonar Cube, Eclipse PMD |
| Database Server | Oracle 11g, 12c,19c, SQL Server 2012, MySQL, PostgreSQL |
| Messaging Framework | JMS, Active MQ, Rabbit MQ,Solace,Kafka,SQS |

**Certifications:**

* **Completed AWS Certified Solutions Architect-Associate**
* **Completed SCJP 1.5**
* **IBM WebSphere Application Server Network Deployment**
* **Introduction to Oracle 9i: SQL**

**Academic Qualifications:**

* **Master of Computer Application (MCA) from Bharathidasan University 2004**
* **Bachelor of Science (B.Sc. Chemistry) form Madurai Kamaraj University 2000**

**Work Experiences**

 **Senior Architect May 2019 to Till Date**

## **Amaze for Applications -TIBCO BW Replatforming to AWS**

Client : **Fannie Mae – Reston, Virginia**

Duration : June 2019 – Till Date

**Technology Stack**:Java, Jdk17, Spring,Webservices,SpringBoot, React.js, Microservices,Rabbit MQ,Oracle WebLogic 12c, Tomcat,Docker,PostgreSQL, TIBCO BW5,EMS,Kafka,MongoDB,Performance Eng, Spring JPA,OAuth2,AWS ,ECS,EKS, RDS,API Gateway,DMS,IAM,EC2,SNS,VPC,S3,IaC,Cloud Watch.

**Project Background:**

Amaze is a highly customizable cloud modernization product suite designed for Java, .Net and middleware/workflow applications. Amaze suite of solutions provides smart cloud upgrades to monolith applications without changing their existing business functionality and utilizing maximum automation to save upon manual efforts. There are no additional licensing costs are to be borne by the customer, High scalability with improved application performance. Upgrading the underlying libraries used by the application to make it compatible with Cloud containers or PaaS.

**Responsibilities:**

* Identifying **TIBCO/BPEL/OSB** monolith applications are quickly containerized with minimal refactoring and then they are deployed on the cloud environment
* Involving Application analysis on the source code to identify the applications that need to be migrated.
* Enhanced the current legacy system to accommodate new user requirements.
* To understand the existing system architecture, Product architecture and integration methodologies.
* Provided **Assessment Report** Highlighting the level of Refactoring required in the Replatforming to Cloud Native App.
* To choose appropriate migration strategy (**Rehosting, Replatforming, Refactoring**) based on the specific needs of the application and business needs.
* Analyze the domain to identify logical boundaries and define bounded contexts, using techniques such as **Domain-Driven Design** (DDD). Plan and execute data migration strategies to transition data.
* To architect design and develop (through Team) solution for product/project & sustenance delivery.
* Application Performance Monitoring (**APM**) and Tuning and Code optimization.
* To design the target cloud architecture that meets **availability, scalability, reliability, resilience** and performance requirements and define the migration approach and identify key milestones.
* To monitoring and logging solutions using **AWS CloudWatch**, AWS CloudTrail, and third-party tools to ensure visibility into system performance and security and Optimize resource utilization through services like **AWS Auto Scaling** and AWS Elastic **Load Balancing**.
* Application Migration and Communicated with infrastructure/fellow architects/enterprise framework group to ensure best practices and address scalability/reusability issues.
* Provides ongoing training for other team members on key architectural and best practices for Microservice and **Cloud Native Apps** development.
* Implementing to Multi-Factor Authentication **(MFA)** using One-Time Passwords **(OTP)** is a widely adopted method for enhancing the security of user authentication processes.
* Implement security best practices in AWS Solutions, including identity and access management, **(IAM)**encryption, and compliance with industry standards.
* To choose appropriate AWS data storage and database services **(RDS)** considering factors like data volume, access patterns, and data consistency requirements. To design solutions that are fault-tolerant and have built-in redundancy and plan for **AWS** **Disaster Recovery** scenarios.
* Working on different stakeholders across the organization to deliver quality products on time.
* Designing and configuring of Kafka ecosystem, Zookeeper, **Kafka cluster**, Kafka broker, producer, consumer, different APIs, Kafka Topic.
* Design the schema and data models appropriate for **MongoDB** considering document structure, indexes, and collections.
* Research and propose solutions for **AWS** with Containerization, data connections, operational frameworks, and application integration.

**HCL Technologies Ltd Jan 2017 to May 2019**

**Java Consultant**

## **Main Street America Group Steady State (MSAG)**

Client : Main Street America(Insurance)

Duration : February 2017 – May 2019

**Technology Stack**: Java, Jdk1.8,JEE,Spring,Hibernate,Webservices,SpringBoot,Oracle 12c, SQL Server 2012,Microservices,IBM WebSphere Application Server, Jboss Server,React.js, 8.5,WSO2,Tomcat,AWS,ECS,EKS,EC2,S3,IAM,RDS,AppDynamics,Splunk

**Project Background:**

The Main Street America Group was established in 1923 with the founding of National Grange Mutual Insurance Company (NGM), which was created to provide affordable insurance coverage to Grange Fraternity members in New Hampshire.

Main Street America offers a wide range of commercial and personal insurance products, as well as fidelity and surety bond products, to "Main Street" individuals, families and businesses.

**Responsibilities:**

* Requirements gathering and analysis, Architectural Design, Plan, Solution, Estimation, High Level Design.
* To understand the existing system architecture, Product architecture and integration methodologies.
* To recommend client value creation initiatives and implement industry best practices.
* To understand the existing system architecture, Product architecture and integration methodologies.
* To recommend client value creation initiatives and implement industry best practices.
* To recommend client value creation initiatives and implement industry best practices.
* CR Implementation and Release Instruction provided to Support team.
* Application Performance Monitoring (APM) and Tuning and Code optimization.
* To ensure knowledge up-gradation and work with new technologies so that the solution is current and meets quality standards and the client requirements.
* Application Migration from WAS 6.1 to WAS 8.5.5 and Application Performance Monitoring (APM) and Tuning and Code optimization.
* Application Migration and Communicated with infrastructure/fellow architects/enterprise framework group to ensure best practices and address scalability/reusability issues.

**Infosys Jan 2012 to Jan 2017**

**Technical Lead**

**Finacle E-Banking**

Client : Eastern Bank, ICICI Bank, EXIM Bank

Duration : March 2012- Jan 2017.

**Technology Stack**: FEBA 2,Java,Jsp,Servlets,Spring,WebSevices,IBM WAS Application Server 7.0, 8.5,Jboss Application Server,Hi +bernate,Oracle 11g, 12C , SQL Server 2012

**Project Background:**

A delivery channel is a system which can communicate to the backend system of the bank. Finacle e-Banking system is such a delivery channel that can communicate to the backend system of the bank to accomplish the desired tasks. The e-Banking application is designed in such a way that it can be made to interface with any kind of backend system in the bank. This is achieved by customizing the application for the messaging system of the bank. The backend system can be contacted via a middleware. The e-Banking system should send the messages that can be identified and processed by the middleware. The middleware fetches the details from the backend after interpreting the message from e-Banking.

**Responsibilities:**

* Requirement analysis, UML Design, Coding, Review, HLD and LLD, and bug fixing, Root cause analysis for Production issues.
* Responsible for planning and assigning tasks, monitoring, tracking to closure daily basis.
* Application and Product Migrations and new feature implemented in product
* Query Tuning and Code Optimization and ensure coding standard and practices.
* Performance Support for Finacle Applications and Provided Solution on time.
* Handling RAC Performance Issues
* Websphere Application Server 7.0,8.5 Administration
* Index Analysis/Partitions
* Resolving real time Bank user queries and handling version control system
* Build and Finacle Application Deployment
* Troubleshooting WAS Issues and Defects Fixing for Production Issues.
* Tuning the applications by monitoring the JVM memory usage, verbose garbage collection, thread usage, response times etc.
* Installation, configuration, administration, and support of WebSphere Application Servers in a J2EE middle tier environment.

**Mahindra Satyam March 2011 to Jan 2012**

**System Analyst**

**Good year -Material Information System**

Client : Goodyear Tire & Rubber -USA

Duration : March 2011-Jan 2012

**Technology Stack**: Java, JSP, Servlets, Struts, Portlets, Oracle Application Server, React.js,

 Hibernate,Oracle Weblogic Portal Sever 10g,Oracle 11g.

**Project Background:**

The Materials Information System process is currently handled by four separate applications based on the type of material and the location of the plants. The systems have evolved over the last 8 years and between them, the four applications handle similar workflows, with deviations to manage location/material specific exceptions. The applications are based on Lotus Notes and are currently being used to track the workflow of the sourcing of material and its approval for plant production.

**Responsibilities:**

* Responsible for Understanding the business needs from the Onsite Team
* CR Implementations

#### Better understanding of the problems and faster resolution

* Code Optimization and Code Review
* Requirement analysis and Design
* Review Process done for all the deliverable
* Preparation for Effort Estimation and Status tracker
* Preparation for technical specification and test cases docs
* Solving technical issues.
* Application code Integration and testing
* Post release support during warranty period
* Mentor to our team in functional, technical aspects

**Tata Consultancy Services(TCS) Nov 2006 to May 2010**

**I.T.Analyst**

NetAsthra

Client : Target & Kimberly Clark

Duration : Nov 2006 - May 2010

**Technology Stack**: Java,Jsp, Servlets, Portals, Struts,Portlets, Sun Java System Application Server 9.1,Sun Portal Server 7, Net Beans 6.5, Oracle 10 g, My SQL.

**Project Background:**

Netasthra is an Enterprise IT Infrastructure and Infrastructure Services Management

Tool that delivers holistic, actionable information right on time and on demand. It provides a unified interface and a single touch-point based on the ITIL framework that encompasses all functions that are relevant to day-to-day management of the IT environment Netasthra also provides deep analytics capabilities that facilitate identification of underlying root causes of problems and to quickly narrow-down on the pain points so that they can be effectively addressed. A single window console for viewing the key enterprise IT infrastructure information.

**Responsibilities:**

* Assisted in the overall Design of the Project.
* Requirement analysis, UML Design, Coding, Review, HLD and LLD, and bug fixing, Root cause Analysis for Production Issues.
* Created Portals, Portlets (JSR 168/286), User Profiling, Customization
* Preparation for Technical and Design Documentation.
* Data Mapping and Data Sourcing
* Analyzing Infrastructure Tools and identifying data retrieval from them.
* Handling Team and Provided Support whenever needed.
* Client interaction, Create CR Request and get approve and implement.
* Preparing the deployment Plan Release Notes for Live Env
* Code review with team and created code review template
* Post release support during warranty period and mentor to our team in functional, technical