Induwara Mapalagama
Sr. Full Stack Developer

📞 **(551) 321-8728**

📧 **induwara@shinemail.us**

in **linkedin.com/in/induwara-mapalagama-239aa42aa/**

Over 10+ years of experience in software development with a focus on web-based and enterprise applications, encompassing the complete Software Development Life Cycle (SDLC) from requirement analysis to implementation and testing. Proficient in Object-Oriented programming and Java/J2EE technologies

PROFESSIONAL EXPERIENCE

- Designed and implemented applications utilizing various components of the Spring framework, including **Spring MVC**, **Spring IOC**, **Spring Batch**, **Spring Annotations**, **Spring Data**, and **Spring JDBC**.
- Extensive experience in designing and developing microservices using **Spring Boot**, enabling scalability and flexibility in application architecture.
- Developed J2EE **web services** such as **Restful**, **SOAP**, **WSDL**, **UDDI**, **JAX-WS**, **JAXB**, and JAX-RS to facilitate seamless communication between systems.
- Proficient in core J2EE technologies including **Hibernate, Struts, Servlets, JSP, EJB, JPA, JDBC, JTA, JavaBeans, and JMS** (**MQ**).
- Strong understanding of UI technologies such as **ReactJS, Redux, AngularJS, Vue.js, NodeJS, Bootstrap, JavaScript, HTML,** and **CSS.**
- Successfully deployed Java applications to cloud platforms such as Amazon Web Services (AWS), leveraging services like **EC2, S3, ECS, EKS, RDS, Lambda, Route 53, IAM, VPC, CloudWatch, CloudTrail, SQS**, and **SNS**.
- Utilized AWS CloudFormation scripts to automate resource creation, improving deployment efficiency.
- Proficient in containerization technologies including **Docker** and **Kubernetes**, ensuring consistent and scalable deployment environments.
- Expertise in **Continuous Integration** (CI) and **Continuous Deployment** (CD) concepts, utilizing tools such as **Jenkins, Maven, Ansible, Terraform, Git,** and **Ant** for automation.
- Proficient in testing frameworks including JUnit and **Mockito**, with experience in integration and performance testing.
- Extensive experience with message brokers such as **Apache Kafka** and **RabbitMQ**, enabling the development of decoupled and resilient systems.
- Skilled in various software development methodologies including **waterfall**, **Agile** (XP and Scrum), and **Test-First, Test-Driven Development (TDD)**.
- Proficient in deploying applications on **Tomcat** and **WebSphere** application servers.
- Demonstrated expertise in building web applications from scratch and successfully deploying them in production environments.
- Experienced in managing multiple projects simultaneously and meeting deadlines, demonstrating a comprehensive understanding of the entire **Software Development Life Cycle** (SDLC).
- Implemented key modules for web applications, including **Exception Handling, Logging, Authentication, Cache, Application Filters,** and **Session Management**.
- Strong understanding of Core Java concepts, including **Garbage Collector, Collections Framework, Exception Handling, Multithreading, Event Handling, JDBC, JMS,** and **Generics**.
- Familiarity with functional programming styles in Java 1.8, including **Lambda Expressions** and functional interfaces.
- Knowledgeable in JS **AJAX** frameworks and ORM frameworks such as **Hibernate**.
- Proficient in utilizing design patterns such as **Singleton, Factory, Prototype, Front-Controller, Session Façade, Service-Locator, DAO, DTO, MVC,** and **Business-Delegate**.
- Experience in parsing and extracting data from **XML** using **XSL, XSLT, XML**.
- Skilled in working with database systems like **MySQL, PostgreSQL,** and **Oracle**, with expertise in **SQL** queries and database design.

TECHNICAL SKILLS

SDLC Methodologies	Agile/Scrum, Waterfall
Web Technologies	HTML5, CSS, CSS3, JavaScript, JSON, Angular JS, Angular 2/4, AJAX, XML, JavaScript, jQuery
Frameworks	Spring, Spring boot, JPA, Hibernate, Bootstrap, ReactJS, Redux, Elasticsearch
IDE & Tools	IntelliJ, Eclipse, Notepad++, Sublime Text 3, Visual Studio Code
Database	MY SQL, Oracle Database, MS SQL, MongoDB, PostgreSQL, Amazon RDS, Cassandra
Operating Systems	Windows, Linux, Mac OS X
Cloud Technologies	Amazon Web Services
Containerized Technologies	Docker, Kubernetes
Build/SCM Tools	Ant, Mavens, Git, Stash
Web Services	SOAP, REST, Restful, Microservices
Other Tools	Postman, SoapUI, Microsoft Visual Studio, GitHub, Jira, Confluence

Client: Magellan Healthcare, Albany, NY   **Date: Jul 2020 to Present**
Role: Sr. Full Stack Developer

Responsibilities:

- Created and configured **Microservices** architecture, seamlessly integrating it with the **ReactJS** application.
- Developed **Restful Web Services** with **JAX-RS** using Spring Boot and Microservices Architecture, ensuring seamless communication between web applications and databases.
- Experience as a **Cúram** Developer with experience in interface design and development
- Experience in development with both the **Cúram** Enterprise Framework and Cúram Batch Modules
- Implemented ReactJS components, enabling dynamic and interactive user interfaces while utilizing Spring Boot for the backend.
- Implemented **log4j** to monitor application logs, establishing a robust error logging system for efficient debugging and issue resolution.
- Implemented **ReactJS** services to connect the web application to the back-end **API.**
- Understanding and experience of RESTful interactions with **MarkLogic** server and interaction via client layer (XCC)
- Experience as a **Marklogic** administrator with focus on clustering and multi region disaster recovery environments with data synchronization within **MarkLogic** platform
- Working knowledge of Oracle RDMBS and NoSQL databases, MarkLogic
- Implemented batch jobs using **Spring Batch** to send timely notifications, enhancing system responsiveness.
- Implemented authentication and authorization mechanisms using Spring Security and OAuth to ensure secure application access.
- Developed ReactJS pages, implemented web service and **AJAX** calls, enabling seamless functionality and data retrieval.
- Designed and implemented applications using Spring Boot, Spring **MVC**, Spring **IOC**, **Spring Batch**, Spring Annotations, **Spring AOP**, Spring Transactions, and **Spring JDBC**, leveraging their features for robust application development.
- Developed scripts for build, deployment, maintenance, and related tasks using Jenkins and Docker, streamlining development processes.
- Responsible for implementing Continuous Integration (CI) and Continuous Delivery (CD) processes using Jenkins and UNIX Shell scripts, automating routine jobs for increased efficiency.
- Utilized **Java 8** features such as Lambda expressions, Parallel Streams, and functional interfaces to optimize code performance and improve productivity.

Client: State of Iowa, Des Moines, IA　　　　　　　　　　　　　　　　　　　　**Date: May 2017 to Jun 2020**
Role: Full Stack Developer

Responsibilities:

- Working in **Agile** framework, we designed and crafted business logic using **Java** and the **Spring API**.
- Developed middleware components like Stateless Session Beans **(EJBs)** and web services, deploying them on application servers.
- Leveraged Apache **CXF** as the web services framework for implementing **REST APIs.**
- Regulated business analysis and data analytics to identify **Captiva Command Line** for cost savings and revenue generation.
- Collaborated with development teams to design and implement **Net Code Module, Captiva Desktop, and, ODBC** reporting solutions, ensuring accuracy and completeness of data.
- Implemented robust authentication and authorization security through **JSON Web Tokens (JWT),** alongside user validation and permissions management.
- Develop solutions using both relational and non-relational technologies (such as MongoDB or **MarkLogic**). The group is embracing non-relational technologies where possible. These services involve both real-time and batch modes of data processing
- Experience of nosql/graph solutions such as OrientDB, MongoDB or **MarkLogic**
- Designed **RESTful** service interfaces with **Spring Boot** for interactions with the Agent Services **API**.
- Applied **J2EE** design patterns such as Session Façade, Business Object **(BO),** Service Locator, Data Transfer Object **(DTO),** Data Access Object **(DAO),** Singleton, and Factory.
- Contributed to the creation of **PL/SQL** scripts, stored procedures, and packages, resolving any database-related issues that arose.
- Conducted Proof of Concepts **(POCs)** for creating custom Docker container images, including tagging, pushing, and configuring Kubernetes clusters for Docker image orchestration.
- Used the Model-View-Controller (**MVC**) architecture, utilizing the JSF framework for presentation, and interfaced with **Servlets, JSP, JDBC**, and **JavaScript** within the **MVC** paradigm.
- Demonstrated proficiency in Oracle database usage, extensively developing **PL/SQL** backend solutions and executing SQL operations like Create, Select, Update, and Delete.

Client: 53rd Bank, Cincinnati, OH　　　　　　　　　　　　　　　　　　　　**Date: Dec 2015 to April 2017**
Role: Full Stack Developer

Responsibilities:

- Crafted dynamic web applications using technologies like **Spring MVC 4**, **Ajax**, **jQuery**, **CSS**, and **HTML**.
- Created user interfaces with **Angular 4,** encompassing elements such as dependency injection, models, data binding, and controllers.
- Developed view components using **JSP**, **JSTL**, **JavaScript, CSS**, **Struts Logic tags**, and Struts tag libraries **Struts 2**.
- Harnessed the capabilities of **Java 8**, including parallel streams, lambdas, functional interfaces, and filters.
- Managed **JBPM** processes to facilitate client activities and streamline people queues for each task.
- Worked extensively on **REST API** services and leveraged **REST/JSON** for testing web services and handling payload data.
- Employed **MongoDB 3.x** clusters and JavaScript scripting to load unstructured data into a shared environment.
- Created comprehensive documentation for solutions architecture, including system context and architecture overviews.
- Developed REST-based web services for data retrieval, making them independent of the current application.

- Established a **Jenkins 2.x** server and configured Jenkins jobs to automate the build and deployment processes across various environments using **Maven3. x.**
- Utilized **Git** as the version control repository and tracked issues using **JIRA 7.x.**
- Leveraged **Hibernate5.x** for Object-Relational Mapping (**ORM**) and data persistence.
- Utilized a variety of **JavaScript** and **jQuery** libraries, as well as **AJAX**, for form validation and other interactive functionalities.
- Implemented the **Apache Maven** build tool to streamline the build process and employed **Jenkins CI** for continuous integration.

Client: Key Bank - Virtusa Global Delivery Center, Sri Lanka   **Date: Feb 2014 to Jul 2015**
Role: Full Stack Developer

Responsibilities:

- Developed a prototype of the application and demonstrated to business users to verify the application functionality.
- Developed internal and external validation code using **JavaScript**.
- Developed and designed the various screens and its architecture in accordance with UI Specs.
- Written stored procedures, triggers, and cursors using **Oracle PL/SQL**.
- Created and deployed web pages using **HTML**, **JSP**, **JavaScript** and **CSS**.
- Used **PL/SQL** to write stored procedures, triggers, and cursors to manage the application's back-end data and improve its performance.
- Worked with HTML, XML, XSL, JSTL, **JSP**, and **AJAX** to create dynamic and responsive web pages that improve user experience.
- Used **JIRA** to track project progress, issues, and bug fixing, which helped in improving team collaboration and project management.
- Developed the application's front-end using **JSON**, **jQuery**, and **Drupal** to create visually appealing and user-friendly web pages.
- Developed and implemented the MVC Architectural Pattern using **Struts Framework** including **JSP**, **Servlets**, Form Bean and Action classes.
- Worked with multiple application servers like **WebLogic** 10.3, **IBM WebSphere 7**, and **Apache Tomcat** 6.0 to deploy, test and run the application.

Client: Merck Pharma - Virtusa Global Delivery Center, Sri Lanka   **Date: May 2013 to Jan 2014**
Role: Full Stack Developer

Responsibilities:

- Experience in developing front end using **HTML5, JavaScript, CSS3/4, TypeScript, jQuery, Bootstrap, Ajax, JSON, XML, Angular 9, React.js, Node.js.**
- Developed Python scripts to parse the **Flat Files, CSV, XML, JSON** files and extract the data from various sources and load the data into data warehouse.
- Designed and maintained Terraform configurations, ensuring adherence to best practices and scalability.
- Used Angular.js to parse the data fetched from APIs and used backbone.js to develop an application to perform **CRUD** operations on the database server.
- Enhanced application performance by Angular 9 component based development in view of future angular framework transitions.
- Proficient in designing schemeless **NoSQL** data models in Amazon DynamoDB for Java applications, optimizing data access patterns and partitioning strategies.
- Developed http requests using Rxjs observables to communicate between server and client with Angular 9.
- Developed various screens for the front end using Angular 8, and used various predefined components from NPM (**Node Package Manager**).
- Integrated **Azure DevOps and other CI/CD** tools to automate the deployment of containerized applications on Azure Cloud.
- Implemented Spring framework for Dependency Injection, support for the Data Access Object (**DAO**) pattern and integrated with Hibernate.
- Used Hibernate as **ORM** to map Java classes to database tables. Involved in setting up configuration properties, ORM mapping and CRUD operations with database.
- Implemented security best practices on GCP, including encryption, identity management, and firewall rules, to safeguard Java applications and data.

EDUCATION

- Bsc in Information Technology- ESoft Metro Campus (Colombo, Sri Lanka)