**Gregory Lawson**

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| Telephone:    (770) 862-0112 | Email: glawson6@yahoo.com |

**OBJECTIVE**

Pursuing a Principal Software Engineer, Applications Architect or Solutions Architect position requiring a motivated and dedicated individual whereby achievements and performance will be recognized and rewarded.

**SUMMARY OF QUALIFICATIONS**

Highly motivated, experienced Java developer/consultant/architect, effective at multitasking and working under pressure to accomplish overall objectives

“Go to Guy” when a solution is needed. Able to analyze business needs and formulate creative design and technical approaches in both individual and team settings.

Strong understanding of Enterprise Architectures, Java and Database solutions with Windows and Linux flavors

Ability to dissect, understand, and utilize new and complex API’s for common business use cases.

Ability to learn new frameworks, design patterns, architecture and programming languages.

Ability to apply, implement complex APIs for use for lower level developers.

Ability to adapt to new and changing environments.

Knowledge in architecture, hardware, software for all computers science needs.

Effectively relay and communicate new technologies to management and all related stakeholders.

Develop precise solutions for every computer related issues in software development.

Motivated team player who works diligently to ensure consistency and satisfaction of project requirements.

Expansive knowledge and research capabilities to uncover latest technology developments to employ into solutions

Capable of excelling as an individual developer or within a small to large team development environments.

Ability to coach, mentor and train less experienced team members.

Effective communication skills to translate business requirements into actual implementation.

Experience in building applications  hosted in the cloud.

Experience building SOA implementations including SOAP and RESTful based webservices.

 **SKILLS OVERVIEW**

###### Web Technologies: JavaScript, AngularJS, HTML5, CSS3, Bootstrap, Ruby on Rails

###### Programming Languages: Java, C, C++, HTML, SQL, XML, Ruby, Groovy

###### JAVA Enterprise Technologies: JDBC, JSP, Servlets, EJB 3.1, SWING, SOAP and RESTful,Web Services, JMS, JPA

###### ORM Tools: Hibernate, IBatis, MyBatis

###### Build Tools: Maven, Ant, Gradle

###### Frameworks: Spring Boot, Spring, Spring MVC, Spring Security, Struts

###### Application Servers: JBOSS, Weblogic, Websphere, Tomcat

###### Application Security: Spring Security, OAuth2, JWT, Apache Shiro

###### Enterprise Service Bus: Mule ESB, Apache Service Mix, Fuse ESB (Camel)

###### Message Oriented Middleware: Kafka, MQ Series, Sun One Message Queue, JBOSS MQ, ActiveMQ

###### Databases: SQL Server , Oracle, DB2, DataFlex, MS Access, MySQL, Sybase, Postgresql, SQLite

###### Operating Systems: Windows 2000, NT, XP,Vista, Linux, UNIX, MAC OS X

###### SCM: Git, CVS, Subversion, Visual Source Safe, ClearCase

###### Big Data: Hadoop, MapReduce, HDFS

###### Cloud Deployment: Amazon Web Services, Heroku, Digital Ocean, Azure, Docker, Kubernetes

**WORK EXPERIENCE**

**Software Architect, Java Consultant, Fiserv**

Atlanta, Ga                                02/2018 – Present

**Responsibilities:**

Provide technical leadership for Fiserv in their efforts to migrate from a monolithic code base to microservices and a multi-tenanted solution for Online Banking Solutions. Develop the strategy for microservices development and define the technical infrastructure to support that strategy in Fiserv for CI/CD. Recommend new technologies to ensure quality and productivity. Provide guidance and direction for internal API development and consumption. Subject Matter Expert (SME) for Spring Boot Ecosystem, utilizing the platform to create proof of concepts (POCs) of different systems and use cases for microservices development. Develop code modules and libraries in support of microservice development with Spring Boot. Generate patterns of reuse for applications. Provide leadership to projects by suggesting revisions, repairing or expanding existing programs to increase operational efficiency. Manage the accuracy and integrity of code base by creating unit tests in previously untested code and providing guidance for improvements where necessary. Sought out by other working teams to collaborate on enterprise integration needs for various product features.

**Solutions:**

* Build Spring Boot microservices for the delivery of software products across the enterprise.
* Decompose existing monolithic code base into Spring Boot microservices.
* Created client library that provided load balanced and fault tolerant consumption of Spring Boot microservices from monolithic application.
* Created POC of Authentication and Authorization with Oauth2 Spring Boot microservice. Utilized JWT as tokenization scheme for Oauth2.
* Demonstrated and modeled security patterns with JWT and Oauth2.
* Created POC of multitenancy with micro services utilizing Postgresql.
* Integrated multi tenancy model into security model for POC.
* Developed and configured Kubernetes cluster for CI/CD development
* Researched Kubernetes deployment strategies for exposing Services through Kubernetes Ingress
* Installed HaProxy ingress to expose internal Kubernetes services through DNS. Deployed POCs to Kubernetes cluster.
* Mentored developers and sys admins on Java Kubernetes deployments.
* Configured Artifactory for Maven/Java artifacts/libraries.
* Configured Artifactory to be exposed as internal enterprise Docker registry.
* Created Maven builds to build and deploy Spring Boot microservices to internal enterprise Docker registry.
* Created Gradle builds to build and deploy Spring Boot microservices to internal enterprise Docker registry.
* Develop API for Pingdom/Mattermost using Spring Boot architecture and Mule.
* Create highly customized Spring Boot microservice with Mule.
* Create, design and develop Mule flows for integration between Pingdom and Mattermost

**Technologies:**

Maven, Gradle, Linux, Groovy, Java, Spring, Spring Boot, Mule, Camel, Spring Security, JPA, Postgresql, SQL, Kubernetes, OAUTH2, Docker, Jenkins

 **Principal Consultant,** **Taptech.net, GregoryLawson.net**

Atlanta, Ga                                2002 – Present

**Responsibilities:**

Provide technical consulting and development for companies seeking system integration solutions utilizing Java-based technologies. Provide technical leadership for Taptech.net and GregoryLawson.net. Develop infrastructure and code to run in Gregorylawson.net

**Solutions:**

* Build Spring Boot micros services for the delivery of software products across the enterprise.
* Created and configured Kuberenetes cluster for [gregorylawson.net](http://gregorylawson.net) with Ubuntu Linux
* Installed Synology NAS Server
* Created and configured inbound and outbound mailservices for [taptech.net](http://taptech.net) with Synology.
* Created and configured SMTP support with Synology for applications running in [gregorylawson.net](http://gregorylawson.net)
* Created and configured NFS fils share for Kubernetes cluster.
* Created and configured Lun for Kubernetes Persistent volumes
* Deployed jenkins to Kubernetes cluster
* Deployed Lattermost to Kubernetes cluster
* Deployed Nexus to Kubernetes cluster
* Created and configured maven/Java artifact repository
* Created and configured Docker registry from Nexus install
* Configured external DNS and routers for infrastructure.
* Installed HaProxy ingress to expose internal Kubernetes services through DNS.

**Technologies:**

Maven, Gradle, Linux, Groovy, Java, Spring, Spring Boot, Mule, Camel, Spring Security, JPA, Postgresql, SQL, Kubernetes, OAUTH2, Docker, Jenkins

**Software Architect, Integration Lead, OneTrust, TapTech**

Atlanta, Ga                                03/2017 – 01/2018

**Responsibilities:**

Provide technical leadership for OneTrust in their efforts to integrate proprietary software with third-party systems and APIs.  Develop the strategy for API development and define the technical infrastructure to support that strategy in OneTrust. Provide guidance and direction for external API development and consumption. Subject Matter Expert (SME) for Mule,  utilizing the platform to create POCs of various integrations of different systems. Develop code modules and libraries in support of API development. Generate patterns of reuse for applications.  Provide technical direction and support to achieve project delivery goals of Product Managers in OneTrust integration features. Participate in requirements gathering and definition sessions to contribute technical knowledge and design solutions. Provide leadership to projects by suggesting revisions, repairing or expanding existing programs to increase operational efficiency.  Assist product management in assessing the level of effort of project tasks and user stories, creating accurate estimates to support project planning and schedules. Manage the accuracy and integrity of code base by conducting code reviews and providing guidance for improvements where necessary.  Sought out by other working teams to collaborate on enterprise integration needs for various product features.

**Solutions:**

* Build micros services for the delivery of software products across the enterprise.
* Establish and develop event framework for internal business events.
* Create data model for internal event framework.
* Establish and develop a framework for delivering RESTful APIs to external customers.
* Create RESTful APIs for external facing customers.
* Create data model for external RESTful API configuration including API key management.
* Integrate RESTful API with internal security model. Includes developing custom interfaces in security model to allow uses by external systems.
* Develop APIs using Spring Boot architecture and Mule.
* Create highly customized Spring Boot micro service with Mule.
* Create and design APIs using RAML.
* Create, design and develop Mule flows to for internal event framework.
* Create, design and develop Mule flows to for external and internal APIs.
* Create and develop custom code to run in Mule. Includes custom transformers , validators using and extending Mule API.
* Create and develop custom code to run in Mule/Spring environment. Includes custom Mule/Spring event handlers.
* Create custom integrations, utilizing Mule, between Jira and OneTrust
* Create custom integrations, utilizing Mule, between Slack and OneTrust
* Create custom integrations, utilizing Mule, with custom SMTP servers

**Technologies:**

Maven, Linux, Groovy, Java, Spring, Spring Boot, Mule, Spring Security, Spring Data Rest, JPA, SQL Server, SQL, Azure, RAML, JMS, OAUTH2, ActiveMQ, Docker, JSON

**Software Architect, Altisource**

Atlanta, Ga                                01/2016 – 04/2017

**Responsibilities:**

Develop the strategy for application development and define the technical infrastructure to support that strategy in Altisource Marketplace and Labs. Provide guidance and direction for software projects. Generate code libraries to be used across the enterprise. Generate patterns of reuse for applications. Provide best practices trainings for developers. Provide technical support to achieve project delivery goals of Product Managers and Directors. Analyze process and systems and provide recommendations for improvement to assist the business in achieving its goals and objectives, leveraging best practices and professional experiences. Participate in requirements gathering and definition sessions to provide technical knowledge. Assist project management in assessing level of effort of project tasks and user stories, creating accurate estimates to support project planning initiatives. Manage the accuracy and integrity of code base by conducting code reviews and providing guidance for improvements where necessary. Provide leadership to projects by suggesting revisions, repairing or expanding existing programs to increase operational efficiency.

**Solutions:**

* Build microservices for the delivery of software products across the enterprise.
* Recommend and develop strategy for integrating internal security model into new projects with Spring Security and Spring Boot.
* Create RFP (Request for Proposal) microservice to provide RESTful API utilizing Spring Boot with Spring MVC.
* Create Data Model for and initial Java JPA entities for RFP project.
* Architect build pipeline for internal projects which includes utilizing Gradle for project build and structure.
* Oversee and develop Notification Service microservice to use across the enterprise.
* Utilize Camel to integrate microservices with other microservices and RabbitMQ messaging exchanges.
* Integrate Gradle with Artifactory for artifact repository.
* Integrate project release management with Gradle and Bamboo.
* Configure Bamboo for deployment of Artifacts to target environment.
* Provision application nodes in AWS with Vagrant.
* Create Chef cookbooks for creation and delivery of application node and database node.

**Technologies:**

Gradle, Bamboo, Groovy, Chef, Linux, Ruby, Bash Shell Scripting, Java, Spring, Spring Boot, Spring MVC, Spring Security, JPA, MySQL, SQL, AWS(Amazon Web Services), Camel, RabbitMQ

**Senior Mule Solutions Architect, Manheim/Cox Automotive, TAPTECH**

Atlanta, Ga                                04/2015 – 12/2015

**Responsibilities:**

Creating Mule applications for integration of various systems at Manheim/Cox Automotive, including but not limited to Salesforce and OVC(One View Of Customer System). Create POCs of various integrations of different systems within Manheim/Cox Automotive with Mule.

**Solutions:**

* Migrating batch processing application from .NET to Mule
* Developing Mule flows to process XML files for Manheim Dealer Representatives and Companies
* Architecting Maven build for Mule application and to run in continuous build server
* Mentoring less experienced .NET developers with Java and Mule
* Developing custom Java classes for custom processing for use in Mule Flows
* Transforming XML messages into Salesforce SObjects.
* Using Mule Salesforce connectors for INSERTS, UPSERTS, and SELECTS from Salesforce data.
* Writing unit tests for custom Java classes and Mule flows.
* Creating on premise environment for testing Mule applications.
* Creating reports from various data sources , including AS400 utilizing Mule.
* Architecting applications that create and consume Restful APIs for integrating RMS data into Salesforce.
* Creating POCs utilizing Mule, MongoDB in AWS EC2 instances.
* Provision, configure EC2 instance for MongoDB

**Technologies:**

Mule, Java, JDBC, MSSQL Server, JMS, ActiveMQ, XML, MAVEN, Spring, Salesforce API, Http GET, Http POST,

CloudHub, AWS

##### Senior Java Consultant/Contractor, Amazon - Fabric.com Subsidiary

Kennesaw,Ga                                 08/2014 – 01/2015

**Responsibilities:**

Creating back end Restful web services with Java utilizing Spring in applications that are used by customer service.

**Solutions:**

* Implemented data access with ORM tool MyBatis
* Implemented Request/Response model for marshalling/unmarshalling JSON with Jackson libraries
* Implemented Service/Business layer for common business logic
* Implemented Spring Controller endpoints for Restful style API access
* Integrated Apache Shiro security session management, access control and authentication into customer service application between Microsoft Active Directory/LDAP and relational data store.
* Created permission model that integrates with third party security (Shiro)

**Technologies:**

Java, Spring, Spring MVC, Jetty, Tomcat, SQL, MS SQL Server, JDBC, Spring JDBC, MyBatis, EHCache, LDAP, JSON, Apache Shiro

**Senior Java Consultant/Developer/Clemson Computing and Information Technology, TAPTECH**

Greenville, SC                                11/2012 – 08/2014

**Responsibilities:**

Migrating South Carolina's Medicaid/Medicare software from mainframe to Curam, Mule and other Java applications.

**Solutions:**

* Developed an analysis against Application Ingest process and existing HBase datastore in order to create a relational model for the conversion of the HBase document persistence store to MYSQL datasource, applying JPA entities to complete the integration between the application and MYSQL datasource.
* Migrated CXF JBOSS deployed web service to Mule ESB and Fuse ESB to develop a proof of concept and prepare a formal recommendation for the best ESB product to use for project.
* Architected software architecture of components focused on the ability to re-use components across multiple Mule projects.
* Introduced and architected Gradle build for new Mule projects.
* Developed Mule flows to process and persist mainframe EBCDIC files and to expose the data with SOAP based webservices by researching and introducing JRecord to parse and process mainframe files using the EBCDIC character set in the absence of any prior tool and introducing JPA for persisting mainframe EBCDIC files.
* Architected and implemented a batch scheduling process to keep Curam and the mainframe system in sync until completion of transition from the mainframe to Curam.
* Implemented the batch scheduling process solution via creation of EJBs to implement the batch scheduler, utilization of Active MQ with JMS to facilitate communication between Mule ESB and JBoss, configuration of JBoss to communicate with Active MQ, creation of Mule flows to retrieve input files for the batch process to run, and creation of Mule flows to route the responses from the batch process to the mainframe and other associated systems.
* Customized Mule components to communicate with mainframe SFTP server.
* Created custom Mule components, processors, and transformers to help facilitate the business process being implemented by the Mule flow.

**Technologies:**

Java, Spring, SQL,Oracle, JDBC, JPA, EJB 3.1, ActiveMQ, JMS, JBOSS, Mule, Apache CXF, SOAP, XML, SFTP/FTP

**ADDITIONAL WORK EXPERIENCE**

Multiple Organizations - Provided solution architecture, development and technical consulting using Java-based technologies for web services, back-end integration and web application development.

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| **Senior Software Developer, Turner, TAPTECH** | Atlanta, GA | 4/2012 – 11/2012 |
| **Senior Software Developer, Tendril, TAPTECH** | Atlanta, GA | 10/2011 – 3/2012 |
| **Software Architect, Morgan State University, TAPTECH** | Atlanta, GA | 6/2011 – 1/2012  |
| **Lead Java Developer/Consultant, Consilium1, TAPTECH** | Atlanta, GA |  3/2011 – 10/2011 |
| **Sr Java Developer, GTRI, TAPTECH** | Atlanta, GA | 7/2010 – 2/2011 |
| **Sr Java Developer, The Weather Channel, TAPTECH** | Atlanta, GA | 10/2009 - 6/2010 |
| **Sr Java Developer, Cox Communications, TAPTECH** | Atlanta, GA | 10/2008 - 10/2009 |
| **Sr Java Developer, CDC/Northrop Grumman, TAPTECH** | Atlanta, GA | 3/2007 – 10/2008 |
| **Sr Java Developer, Georgia Department of Labor, TAPTECH** | Atlanta, GA | 2/2006 – 12/2006 |

**TRAINING**

**Web Development immersive General Assembly**

Atlanta,Ga                                 01/2015 – 04/2015

###### Responsibilities:

###### Full-time 12 week course in full stack web development designing and building web applications

###### Solutions:

###### Developed Car maintenance report application. <https://carmanate.herokuapp.com/> Utilized Ruby on Rails, Ruby, JQuery, Javascript, Postgresql, Bootsrap, Edmunds Vehicle API

###### Created SpoonScore restaurant inspection score application. <http://spoonscore.taptech.net>. Utilized AngularJS, Bootstrap, Javascript, Postgresql, Yelp API, Google API, Java, Spring, Spring MVC, Spring Boot, JPA/Hibernate

###### Technologies:

###### Front-end: JavaScript, AngularJS, HTML5, CSS3, Bootstrap, Wireframing

###### Back-end: Ruby, Rails, RSpec, PostgreSQL, APIs, Java

###### Project Management: GitHub, Trello

**EDUCATION**

**MS, Computer Science** – Southern Polytechnic State University, Marietta, GA

**BS, Electrical Engineering** - Tuskegee University, Tuskegee, AL

Cloudera Certified Developer for Apache Hadoop

Sun Certified Programmer for the JavaTM Platform

Relevant Courses:  EJB & Weblogic, E-Commerce, Advanced Databases, Computer Architecture, Computer Networking

Relevant Projects from Coursework: Developed online auction site utilizing Struts 2, IBatis with Oracle database and Tomcat for Advanced Databases course. Developed stored procedures and triggers with PL/SQL.