

**Name:** LOAKESH BACHHU  
**Email:** bachhu.loakesh@gmail.com  
**Phone:** 573-821-9898  
**GitHub:** <https://github.com/loakeshbachhu>  
**Profile:** <https://loakeshbachhu.github.io/>

#### SUMMARY:

- **10+ years** of experience in analyzing, design, development and maintenance of web, client/server applications using **JAVA, J2EE, User Interface (UI), Cloud** web services, Web technologies with strong Object-Oriented concepts, **SOA, Microservices Architectures**.
- Working experience on amazon web services **EC2, S3 bucket, Aws Lambda, API gateway, DynamoDB, AWS RDS, ECS, SQS, Cloud Watch**.
- Extensive experience in J2EE technologies and developing web pages using **HTML/HTML5, XML, DHTML CSS/CSS3, SASS, LESS, JavaScript, React JS 16.8, Redux, Flex, JSON, Node JS, DOM, Ajax, JQUERY and Bootstrap**.
- Good Expertise in analyzing cross-browser issues using Document Object Model (**DOM**) Layout, DOM Functions, and JavaScript functions, Cascading Styles, FireBug, Developer Toolbar
- Detailed understanding of all phases of SDLC including analysis, design, coding and testing. Expertise in using **J2EE** design patterns including Singleton, Decorator, Factory, Front Controller, Data Access Object, MVC, Data Transfer Object.
- Fluid knowledge in using waterfall, **Agile**, Test Driven (TDD) methodologies to develop applications and good understanding of Service orientation architecture.
- Strong database connectivity skills with **RDBMS** and Query languages NoSQL, SQL, PL/SQL and in developing Stored Procedures, Functions and Triggers.
- Having good Knowledge in **NOSQL** databases like **DynamoDB** and **MongoDB**
- Hands-on experience in using Application and Web Servers like **IBM Websphere, Apache Tomcat** and **NPM** for deploying applications on Windows environments.
- Experience in using various configuration management tools like **Git** and **CVS**.
- Use of Middleware-end use of **Node JS, Express** and **NPM** for configuring the project according to the project needs.
- Experience in handling messaging services using **Apache Kafka**. Implemented Kafka producer and consumer applications on Kafka cluster setup with help of Zookeeper.
- Knowledge of **SOAP, WSDL** and **Restful** web services.
- Used **Log4j** for logging, debugging purposes, **JUnit** for unit testing and **Mockito** for the Integration testing for the rest endpoints.
- Involved in **Scrum, Sprint** review, **Retrospective** and Sprint Closure meetings as a part of **AGILE**. Participate in daily **SCRUM** calls to post the latest information on the deliverables. Contributes process improvements and showcases work in demo/retro meetings.
- Skilled in developing business plans, requirements specifications, user documentation, and architectural systems research. Ability to work enthusiastically in both team-based projects and individual projects.

## WORK EXPERIENCE:

Senior Software Engineer  
Client: AARP, Jefferson City, MO

August 2021 to Present

### Responsibilities:

- Involved in Analyzing, designing, and Writing Specification/Design documents for the requirements of the **EEMC** project.
- Created a Realtime data pipeline to ingest the data from the third parties APIs with multiple sources and stage the raw data in DynamoDB and processed further through ETL using **Step functions** and Lambda with **DynamoDB streams** and processed data is persisted to **AWS RDS PostgreSQL**.
- Used **AWS SQS** to queue the data ingested from different API sources based on the data size using various queues into staging layer with DynamoDB.
- Amazon **IAM** was used to maintain the user credentials and was also involved in creating custom **IAM** policies for various groups defined within the organization.
- Object storage service **Amazon S3** is used to store and retrieve media files such as images.
- Creating alarms in **CloudWatch** service for monitoring the server's performance, CPU Utilization, disk usage, etc.
- Developing web pages using **Angular** Framework and worked with various Angular directives and services and Filters to build the Applications. Consumed HTTP services using **Angular 12** modules
- Implemented a '**server less**' architecture using serverless framework, **API Gateway**, **Lambda**, and **Dynamo DB** and deployed **AWS Lambda code** from Amazon S3 buckets. Created a Lambda Deployment function, and configured it to receive events from your S3 bucket
- Implemented **SSO** and Connecting lambda functions to **API Gateway**, authenticating and authorizing using **Cognito** and **ADFS** integration, API Gateway authorizers, and forwarding proxy integrations.
- Configured, ARN's, security tokens, API end point URL's and environment specific configs using **AWS Parameter Store** with both secured and default.
- Collaborate in the automation of AWS infrastructure via **Bitbucket** Implemented **CI/CD** pipeline and extensively worked for End-to-End automation for all build and deployments.

**Environment:** Java/J2EE, Node JS, Serverless framework, ReactJS, Webpack, NPM, CSS3, JSON, HTML5, Maven, JUnit, Mockito, Chai, Mocha Log4j, Express, Git, Bitbucket, Amazon EC2, Amazon S3, AWS CLI, AWS Lambda, Amazon IAM, API Gateway, RDS, SQS, Parameter Store, DynamoDB, DynamoDB Streams, Step Functions, PostgreSQL, SES, SNS.

Senior Software Engineer  
Client: Capital One, Jefferson City, MO

March 2019 to August 2021

### Responsibilities:

- SCOUT is a modern-day application used by Capital One to aggregate the transactions of an entity every day and report any CTR's over the threshold.
- Participated in developing, designing, and testing Single Page Application (SPA) using Typescript, Angular 9, HTML5, CSS3, JavaScript and Bootstrap.
- Unit testing using Jasmine on Karma and cypress for E2E testing the angular components.

- Amazon **EC2** is used for deploying and testing the lower environments such as Dev, UAT, and Prod.
- **ECS clusters** used to deploy both the **Angular UI** applications and the backend APIs for infrastructure through Jenkin's managed pipelines.
- Used Micro service architecture with Spring Boot based services interacting through REST and Spring Cloud Open Feign integrations.
- Used Spring Data JPA to connect AWS **Aurora MySQL** for high performance and availability.
- Compiled and built the application using Gradle deployed the application.
- Integrating the Efilng with the serverless architecture with AWS Lambda's along with Step function workflow.
- S3 buckets used for storing the XML file with sensitive NPI and PCI data in tokenized form and processed by receiving lambda's to process the information.
- Collaborate in the automation of AWS infrastructure via **Jenkins** Implemented **CI/CD** pipeline and extensively worked for End-to-End automation for all build and deployments.

**Environment:** Java/J2EE, Spring Boot, Spring Data JPA, Node JS, Angular 9, Cypress, Webpack, NPM, CSS3, JSON, HTML5, Maven, JUnit, Jasmine, Log4j, Git, GitHub, Amazon EC2, Amazon S3, AWS CLI, AWS Lambda, Amazon IAM, API Gateway, Parameter Store, Step Functions, AWS ECS, AWS Aurora MySQL.

**Senior Software Engineer**

**February 2014 to March 2019**

**Client: Office of State Courts Administration, Jefferson City, MO**

#### **Responsibilities:**

- Followed **Agile** software development with **Scrum** methodology.
- Involved in Analyzing, designing, and Writing Specification/Design documents for the requirements of the **Show-Me Courts**, **HRIS** multiple projects.
- Develop dynamic single-page applications using **React JS**, **Redux**, and **Web pack** for bundling the applications.
- Built Continuous Integration environment **Jenkins** and Continuous delivery environment. Worked with **Docker** container snapshots, attaching to a running container, managing containers, directory structures.
- Installed, Configured, and Managed **Docker** Containers, Docker Images for Web Servers and Applications servers such as Apache, Tomcat using **Docker** and integrated with **Amazon PostgreSQL RDS** database. Experienced and proficient in deploying and administering **GIT**.
- Developing web applications, and interactive software products using **HTML5**, **CSS3**, **ReactJs**, **JavaScript**, **jQuery**, **AJAX**, **JSON**, **XML**, **Redux**, **Express**, **Node JS**.
- Involved in Designing the functional specifications and architecture using Spring MVC, Spring AOP, Annotations, Mybatis, **Hibernate**, **MongoDB**, **DynamoDB**, and **AWS RDS**.
- Collaborating with the business team to understand product goals, offer suggestions, flush out requirements, and provide feedback on technical feasibility.
- Worked in using **ReactJS** components, Forms, Events, Keys, Router, Animations, and Flux concept.
- Experience working with **Express** for the development of **RESTful** web services and middleware configurations.
- Hands-on experience **RESTful** web services used REST client /POSTMAN to check the response of various APIs and handled various exceptions.
- Involved in Requirement analysis, design, development, IT & UAT testing, and production support, Used Quality Center for change management and defect tracking.

- Wrote **Selenium** scripts using Firefox Webdriver for automation testing.

**Environment:** Java/J2EE, Micro-Services, Spring Boot, Spring Cloud, Spring JPA, ReactJS, Bootstrap, Webpack, NPM, CSS3, JSON, HTML5, Maven, JUnit, Mockito, Log4j, MongoDB, Node JS, Express, Git, Jenkins, Amazon EC2, Amazon S3, Amazon ECS, AWS Fargate, AWS CLI, AWS Lambda, Amazon IAM, API Gateway, RDS, Kafka, Docker.

## **Java Application Developer**

**February 2011 to January 2014**

**Client: CVS, Inc. Cumberland, RI**

### **Responsibilities:**

- Participate in all aspects of the software development lifecycle including requirement analysis, development, unit testing, and automated acceptance testing of software components.
- Interact with clients to gather, analyze business requirements for the Rx Connect project.
- Implemented modules **using Core Java APIs, Java collection, Java, multi-threading, and object-oriented designs.**
- Assist developers to build user interfaces using **Java, HTML5, CSS3, AJAX, JQuery, JavaScript, JSP, and Servlets.**
- Performance profiling (CPU Usage, JVM Heap, Memory Leaks) using Willy and JProfiler Tools and Garbage Collection Tuning
- Participate in user requirements gathering, UI design, and development of custom validation framework for applications.
- Used Java Mailing or Messaging Service (**JMS**) API for mailing detailed notifications depending upon the success and failure once the backend process is complete and also for mailing administrator of any system-related problems.
- Built the application using **TDD** (Test Driven Development) approach and was Involved in different phases of testing like Unit testing, regression, integration, and stress testing using HP Load runner and also responsible for fixing bugs based on the test results.
- Created **JAX-RS RESTful** web services for GET, POST, PUT, and DELETE requests. Used POSTMAN Rest client for chrome to test all the services.
- Administer and Maintain Source Code Repositories including **GIT**, and **Subversion**.
- Used **AJAX** frameworks like jQuery, **JSON** to develop rich GUIs and was also involved in performance tuning the website.
- Involved in creating, modifying, and tuning **SQL** queries, prepared statements, and stored procedures for the application using **PL/SQL** developer and Oracle 10g as the database.
- Assist in developing a user presentation layer using **Spring MVC** architecture.
- Design use case documentation and mentor architecting class diagrams and sequence diagrams to model the system using Microsoft Visio.
- Ensure the functionality and quality of all software deliverables through verification and validation activities.

**Environment:** Java/J2EE, Servlets, Java Beans, Spring MVC, JSP, EJB, Spring JDBC, JMS, Oracle, DOM, CSS3, JavaScript, JQUERY, Ajax, JSP, JSTL PL/SQL, HTML5, DHTML, XML, ANT, Eclipse, IBM Websphere Application Server, Oracle 10G/11G, Windows.

### **EDUCATION:**

- Bachelors in Computer Science Engineering at JNTU, India. 2008.