Madhulatha Nuthpally

**Sr. Software Developer**

#### Links: https://www.linkedin.com/in/madhu-n-20429a12b/

#### SUMMARY:

* 9 years of professional experience in the developing **Software** developer using **HTML 4.0/5, CSS2/ CSS3, JavaScript, jQuery, AJAX, JSON, XHTML, Java, Spring, Springboot** and Hibernate and Spring Frameworks.
* Good understanding on latest approaches in **HTML/CSS3**development, JavaScript frameworks **JQuery**.
* Experience in working with **Springboot** along with **Hibernate** as the backend ORM (Object Relational Mapping) tool for implementation of persistence layer and mapping of POJOs.
* Good Experience with **JavaScript MVC** framework **Angular 11.**
* Expertise and knowledge in working on **Microservices** using **Spring** **Boot**.
* Strong at debugging and analysis of code and fixing issues promptly.
* Good technical exposure to Continuous Integration and Delivery tools surrounding MuleSoft Anypoint Platform.
* Good experience in writing SQL queries, triggers, views, and stored procedures in MySQL, Oracle, Cassandra, MongoDB.
* Proficient in deploying and managing cloud solutions using GCP services.
* Used CI/CD tools like Jenkins, Artifactory, GitHub, Maven and Anypoint Runtime Manager using Docker and Kubernetes.
* Experience in developing applications using Design Patterns – Creational, Strucutional and Behavioral.
* Managed continuous integration and delivery of Java microservices using Google Cloud Deployment Manager.
* Hands on experience in writing back-end automated test cases using Junit and Mockito.
* Good technical knowledge in **PEP+ configuration, custom coding** and **NACHA processing** rules and regulations.
* Can be able to deal with Cross Browser issues very effectively and work on almost every web Browsers **Safari, Internet Explorer, Mozilla Firefox and Google Chrome**.
* Using Media Queries and JQuery Mobile, created Responsive Web pages.
* Involved in creating Unit test cases in Test Driven Development (**TDD**) environment.
* Experienced in architecturing and deploying fault tolerant, highly available, cost effective and secure servers in **AWS**.
* Good Working Experience and understanding with **Firebug for Mozilla and IE Developer Toolbar for Internet Explorer, Web Inspector for Safari, Developer Toolbar for Chrome**.
* Experience using all popular text-Editors like **IntelliJ**, **Eclipse, and Visual Studio.**
* Experience in **Microservice** architecture, with **SpringBoot** based services interacting through a combination of **REST** and **MQ** (Apache Kafka) and leveraging AWS to build, test, and deploy **MicroServices** with **API Gateway**.
* Managed Amazon Web Services (AWS) like EC2, S3 bucket, ELB, SQS, Dynamo DB, ElasticSearch through AWS concole.
* Sound Understanding and good Experience with **Object Oriented Concepts, Object Oriented JavaScript, Object Oriented Design and Implementation**.
* Used **HTML/HTML5, CSS/CSS3, JavaScript, JSON**, **NODE,** **Python** and **TDD** for the development of application.
* Worked on building reports and dashboards using Jasper reporting tool with database which involves writing queries.
* Working knowledge of commonly used **data structures** and **algorithms** (Linked list, hash table, path finding, genetic algorithm, etc).
* Hands on experience in Log4j, Maven, Junit, and Mockito.
* Implemented the **IOS** Adapter views like List View, Grid View and Gallery.
* Experience in attending scrum meetings that involved teams from various phases of SDLC.

**TECHNICAL SKILLS**

|  |  |
| --- | --- |
| **Languages** | Java, Python, PowerShell. |
| **Web Development** | HTML 5, Cascading Style Sheets 3 (CSS 3), JavaScript, XML, XHTML, JSON, AJAX, jQuery, Angular 11, TypeScript, Bootstrap, NodeJS. |
| **Databases** | MySQL, MS SQL, NoSQL, MongoDB and Cassandra. |
| **Frameworks** | Spring, SpringBoot, Spring Batch, Spring Data, Spring Security, MVC, DAO, Hibernate. |
| **Operating Systems** | Windows 2000/XP/Vista/7, Mac OS X, UNIX, LINUX. |
| **GUI Text Editors** | IntelliJ, Eclipse, Visual Studio, Anypoint Studio. |
| **Java/J2EE Technologies** | REST, MicroServices, Log4j, XML, MAVEN, JUNIT, XML, ANT. |
| **MWeb Technologies** | Responsive Design, Jquery Mobile. |
| **CI/CD** | Maven, Jenkins, GitHub, GitLab, Bamboo, Artifactory. |
| **Anypoint Platform** | Anypoint API Designer, CloudHub, Runtime Manager, Anypoint Studio. |

**EDUCATION DETAILS:**

* Master's in Business Administration and Management from CU in Aug 2022.
* Master’s in Computer Science from CU in March 2021.
* Master’s in Information Technology & Management from CU in March 2020.
* Master’s in Information Technology from UMHB in May 2015.
* Bachelor’s in Information Technology from JNTUH/JBIET in May 2013.

**Links:** https://www.linkedin.com/in/madhu-n-20429a12b/

**PROFESSIONAL EXPERIENCE:**

**7-Eleven, Inc – Irving, TX Nov 2023 to tillDate**

**Sr. Software Developer**

**Responsibilities:**

* Working on MySQL and MongoDB, contributing to database solutions.
* Expertise in developing in APIs, API gateway, API performance testing and monitoring tools.
* Expertise in using the PDI application for streamlined development.
* Developed user-defined data structures and library functions using Python.
* Worked on Angular components, services, modules and it’s routing, lazy loading functionalities, pipes and reactive forms.
* Utilizing Jira for seamless team collaboration and project management.
* Continuous development of skills in database management, scripting, and team dynamics.
* Assisted in developing a comprehensive suite of RESTful services and microservices, facilitating seamless data exchange between billing and payment systems by integrating ReactJS frontend with Node.js backend.
* Contributing to data visualization and analysis for informed decision-making.
* Developed GUI using JavaScript and Angular.
* Developed the markups and JS for various UI visual effects and page validation using framework such as JQuery, Angular and Bootstrap.
* Actively incorporating GIT for version control into the development workflow.
* Involved in using JPA (Java Persistence API) frameworks and APIs such as Hibernate.
* Used Springboot and Hibernate for creating fully featured and data driven application.
* Developed and deployed Java applications using Google Cloud Platform (GCP) services like Compute Engine and Kubernetes Engine.
* Built and deployed RESTful APIs using Google Cloud Endpoints and Google API Gateway in Java-based applications.
* I have been in Sprint Monitoring to check the production issues with Logz and NewRelic.
* Created applications using Spring Boot Initializer and Spring MVC and deployed to AWS using Jenkins CI/CD pipelines.
* Involved in deploying desktop applications, web applications, websites and console applications to the Confidential Azure Cloud.
* Exploring cloud platforms such as AWS and Azure to enhance scability.
* Implemented REST API / MicroServices using Springboot.
* Written automated test cases using Junit & Mockito and validated the code coverage.
* Successfully migrated multiple domain specific SpringBoot applications from AWS to GCP, ensuring smooth transition and optimized performance.
* Working on designing and developing applications using Java EE platforms.
* Developed a windows scheduler using PowerShell.
* Created flowchart diagrams for complex features and designs.

**Environment:** Angular, Artifactory, Atlassian tools, AWS, Azure Cloud, Azure Data Studio, Bootstrap, CSV, FTP, Google Cloud Platform (GCP), GEP, GIT, GitLab, GoAnyWhere, Hibernate, Intellij, Java, JavaScript, Jenkins, JQuery, JSON, Junit, Logz, MFT, MicroServices, Mockito, MS Office, MySQL, NewRelic, NodeJS, PDI, POSTMAN, PowerShell, Python, S3, Spring-boot, SQL, Stored Procedures, TXT, Unit testing, Window Scheduler.

**W.W. Grainger, Inc - Chicago, IL June 2019 to Oct 2023**

**Software Developer**

**Responsibilities:**

* Actively participating in daily SCRUM meetings that involve teams from various phases of SDLC.
* Working in an agile development process, monthly Sprint, and daily Scrum.
* Analysis, design, coding, component and assembly testing of all application code owned by the application team.
* Maintenance (including production support), enhancement and development work.
* Write application software, data analysis, data access, data structures, data manipulation, databases, design, user requirements, programming, debugging, testing and implementation, technical and user documentation, software conversions.
* Integrated Spring DAO for data access using Hibernate, used HQL and SQL for querying databases.
* Develop Software components, adhering to existing process guidelines.
* Participating in understanding functional specifications and developing creative solutions to meet business requirements.
* Identifying production and non-production application issues.
* Developed the administrative UI using Angular promises, forms and directives.
* I have been on call to monitore Splunk dashboard and Dynatrace for production issues with Splunk logs.
* Used Junit5 and Mockito for writing automated unit tests in back-end.
* Converted the web sites to web applications to make sure Azure compatible.
* Aided in configuring RESTful APIs with Node.js, creating endpoint requests to manage data flow between clients and Amazon DynamoDB, ensuring efficient data handling and a robust backend infrastructure.
* Designed and implemented microservices architecture on GCP using Google Kubernetes Engine (GKE).
* Involved in writing Java API for Amazon Lambda to manage some of the AWS services.
* Created multiple reusable components and services using Angular built-in and custom directives.
* Integrated with Google Cloud Natural Language, Vision, and Translation APIs using Java SDK for machine learning and AI features.
* Use GIT version control systems for source code management.
* Developed the front-end by doing hands on coding using semantic markup, HTML 5, CSS3, JQuery, Bootstrap, and Angular with a focus on usability.
* Configure Docker files and deployment files to deploy in Kubernetes pods.
* Automated build and deployment pipelines with Google Cloud Build and Jenkins, integrated with GCP services for seamless Java application deployments.
* Involving in build/deploy with Docker for Continuous Integration & Deployment for Microservices.
* Designed and Developed the Spring Boot applications using Apache Kafka as Distributed Messaging System for communication between Micro Services.
* Developing complex reports from scratch using Jasper reports and dashboards.
* Analysis, design, coding, component and assembly testing of all application code owned by the application team.
* Maintenance (including production support), enhancement and development work.
* Used Maven tool to build the application and deployed on the Tomcat Application Server.
* Used Spring Security for Authentication and Authorization of the application.
* Used Jenkins for the automatic build process and used for integration testing and deploying software.
* Write application software, data analysis, data access, data structures, data manipulation, databases, design, programming, testing and implementation, technical and user documentation, software conversions.
* Develop Software components, adhering to existing process guidelines.
* On call with Pager rotation for once a month, for unexpected issues that come up to solve the issues.

**Environment:** Angular, Apache Kafka, API, Atlassian tools, Azure Cloud, Azure Data Studio, Bootstrap, CSS3, CSV, Docker, Dynatrace, Git, GCP, GIT, GitLab, Hibernate, HTML 5, Hybris, Intellij, Java, Jenkins, JQuery, JSON, Kubernetes, Maven, MicroServices, MS Office, MVC, MySQL, NodeJS, POSTMAN, RESTful, REST web services, SDLC-Agile, Splunk, Spring, Springboot, Spring Security, SQL, Stored Procedures, TXT, Unit testing, Window Scheduler.

**MicroInfo Inc - Plano, TX Mar 2018 to June 2018**

**Software Developer**

**Responsibilities:**

* Develop all the **UI** pages using HTML**/HTML5, CSS/CSS3, JavaScript, JQuery, AJAX, JSON**.
* Analyze business requirements and existing software for High Level Design.
* Designed and Developed **UI** Web 2.0 Applications using **JQuery** **UI** that would Search, display and maintain accounts.
* Using **JQuery** core library functions for the logical implementation part client side for all the applications.
* Able to use factory object, filters and directives in **Angular** to use the common functions in difference views to reduce redundancy and improve code maintenance.
* Used **Hibernate** framework for accessing oracle database and call stored procedures.
* Responsilbe for setting up **Angular** framework for **UI** development.
* Develop **HTML** views with **HTML5**, **CSS3**, **JSON**, **Angular** and **Bootstrap**.
* Program the Event handling for **JQuery** controls to accept user inputs and validate it.
* Design and Implemented Effects and accessibility features in **JQuery**.
* Program various **JQuery** **plugins** such as Buttons, Calendar, Grid, List box, Tab Container, Menu, Dialog boxes and Toolbars.
* Use Twitter Bootstrap to develop complex page layouts including various sections such as headers, footers, leftside bars, content area and marketing area.
* Also use other Web presentation technologies such as **HTML**, **AJAX**, **CSS**, **JavaScript**.
* Develop unit and integration tests for existing microservices using JUnit.
* Work in an agile development process, monthly Sprint and daily Scrum.

**Environment:** AJAX, Angular, Bootstrap, CSS/CSS3, ECLIPSE, Hibernate, HTML/HTML5, Java, JavaScript, JQuery, JQuery-Mobile, JSON, JUnit, MS Office, Oracle 11g, Visual Studio.

**Sira Consulting Inc - Houston, TX July 2017 to Feb 2018**

**Software Developer**

**Responsibilities:**

* Designed web application format and shape utilizing **HTML**, **CSS** and **JavaScript**.
* Write **CSS** to design custom sites and JavaScript programs to implement functionality such as sorting faculty by department and arranging calendar feed.
* Developed customer side frop down menus, look bars and drop down switches utilizing Boostrap.
* Used Spring MVC with Hibernate framework
* Experience in using various features of **Angular** like ng & UI Routers, Modules, Controllers, Services, Events 7 Filters.
* Used Object oriented programming ideas to create **UI** parts that could be reused over the Web Application.
* Involved planning in site pages utilizing **HTML5**, **XHTML**, **CSS3**, **JavaScript**, **Angular**.
* Provided support in a timely and professional manner for upkeep and maintenance of web sites
* Performed the System Testing, Regression Testing for complete UI in the wake of settling the issues which are accounted for by Testing Team.
* Using **SVN** for version control.
* Created manual test cases and test suites for different modules in the application.
* Coordinated with Analyst, Development and back-end teams to collect test data for test design.

**Environment:** AJAX, Angular, Bootstrap, CSS/CSS3, ECLIPSE, Hibernate, HTML/HTML5, Java, JavaScript, JQuery, JQuery-Mobile, JSON, JUnit, MS Office, Oracle 11g, Visual Studio.

**ETeam Solutions - Irving, TX July 2016 to June 2017**

**Software Application Developer**

**Responsibilities:**

* Designed wireframes, prototypes and developed Single Page Application using **Angular**, **JavaScript**, **HTML5**, **CSS3** and **Bootstrap** framework for **Responsive** **Web** **Design** (**RWD**).
* Worked as a mobile frontend developer for **Cordova**/**PhoneGap** hybrid application.
* Created Modal windows in **Angular** & **Bootstrap**.
* Modify UI pages using **HTML5**, **CSS3** and **JavaScript**.
* Developed basic prototypes in Angular 2.0
* Worked on **Java** and **JSON**, to interact and get the data from csv files as we are prototyping the user experience.
* Worked with **AJAX** data consisting of **JSON** responses parsing the same and presenting on the UI layer.
* Developed test-driven development (TDD) strategy guiding use of the N-unit testing framework.
* Responsible for Data load operations using **Salesforce** Apex Data loader
* Developed **Angular** Custom Directives to extend the functionality of **HTML** and for DOM manipulation.
* Designed and implemented comprehensive unit tests throughout the development process, using frameworks for React Components and Mocha for Node.Js services, to maintain high code quality.
* Coordinate with teams from different process to integrate various modules.
* Working as a part of an agile scrum team.
* Consumed **Rest** **APIs** using Angular Service methods for **JSON** response string.
* Used Data Loader for insert, update and bulk import or export of data from **Salesforce**.com for complete Apex Programming.
* Implementation and analysis of high performace **algorithms** and **data** **structure**.
* Participated in design & mockup demo meetings.
* Tested the **hybrid** app on chrome browser and fixed bugs after identifying them with Chrome Element Inspector.
* Extensively used Google Chrome developer tools to troubleshoot **CSS** issues and fix them.

**Environment:** AJAX, Angular, Bootstrap, CSS/CSS3, ECLIPSE, Hibernate, HTML/HTML5, Java, JavaScript, JQuery, JQuery-Mobile, JSON, JUnit, MS Office, NodeJS, Oracle 11g, Visual Studio.

**American Airlines - Tulsa, OK Oct 2015 to June 2016**

**Software Engineer**

**Responsibilities:**

* Worked closely with Business Analysts and Information Architect to gather requirement for configurable widgets.
* Understood client requirements for various confirgurable widgets.
* Invloved in development, design, implementation, and testing of front end part of the application.
* Developed single page web application using **JavaScript** framework **Angular**.
* Created **Python** scripts using the **Selenium** **WebDriver** to automate browser navigation to competitors websites and act on pages for data gathering.
* Developed client side validation code using **JavaScript**.
* Created **Selenium** test cases for testing the functionality of the web application using **Selenium** **Tools 2.0**.
* Worked on various **salesforce**.com standard objects like Campaigns, Leads, Accounts, Contacts, Opportunity, Forecast, Cases, Reports and Dashboards.
* Integrated Node.js, a server-side JavaScript runtime, to handle server-side operations and facilitate real-time communication between clients.
* Knowledge of monitoring, logging and cost management tools that integrate with **AWS**.
* Extensively used **Bootstrap** **CSS** to obtain the desired UI.
* Used **Python** to streamline and automate the deployment process.
* Developed the **UI** with extensive use of **JavaScript**, **Json** and **Ajax**.
* Like-wise all the **CSS** files are generated from **SASS** in grunt tasks.
* An understanding of unit testing and **Test**-**Driven** **Development** (**TDD**).
* Designed, developed and implemented Single Page Application (SPA) in **Angular** by consuming **JSON** from **MVC**.

**Environment:** AJAX, Angular, Bootstrap, CSS/CSS3, ECLIPSE, Hibernate, HTML/HTML5, Java, JavaScript, JQuery, JQuery-Mobile, JSON, JUnit, MS Office, NodeJS, Oracle 11g, Visual Studio.

**Sbase Technologies Inc - Irving, TX Aug 2015 to Oct 2015**

**Software Engineer**

**Responsibilities:**

* Involved in various phases of Software Development Life Cycle (SDLC) of the application like requirement gathering, design, analysis and code development.
* Attented every day scrum meetings to provide current project status demonstrations in every two weeks, this implementing Agile methodology (scrum).
* Used HTML5, CSS3, JavaScript, JSON, Bootstrap and JQuery in web page designing.
* Performed code review and peer to peer review.

**Environment:** Bootstrap, CSS3, HTML5, JavaScript, JQuery, JSON, Outlook, Visual Studio.

**COLLEGE PROJECTS:**

**Front End Developer Dec 2012 to Apr 2013**

**JBIET, India**

**Respossibilities:**

* Designed web page using **HTML**, **CSS** and **JSON** get method to get the data.
* Implemented functionality using **JavaScript** and **JQuery**.
* Experienced in making web page cross browser compatable.
* Used **HTML**, **Java** **JSP** for front end, **tomcat** as Application server, **JDBC** for database connectivity and **MySQL** as database.
* Perfromed code review and peer to peer review.
* Implemented and Analyzed Sorting Algorithms based on its individual running times and space complexities and produced visual models for each algorithm in **Java**.

**Environment:** Agile, Bootstrap, CSS, Git, HTML, Java, JavaScript, JQuery, JQuery-Mobile, JSON, MS Office, Visual Studio.