Harshini Gadige

[harshinigadige.29@gamil.com](mailto:harshinigadige.29@gamil.com) **|** 314-529-1219 **|**

<https://www.linkedin.com/in/harshini-dev29/>

**Professional Summary:**

* Having **8+ Years** of professional experience in building **full-stack** web applications and large-scale data pipelines in **AGILE** environment.
* Proficient in end-to-end application development, demonstrating expertise in both **frontend** and **backend** technologies to deliver comprehensive solutions.
* Possesses a deep understanding of **Java 11** and its core concepts, including **collections, streams, lambda expressions, and concurrency**, enabling the development of efficient and modern backend applications.
* Developed enterprise-grade applications using **Spring Boot**, leveraging key concepts such as **dependency injection, JPA repositories, Hibernate for ORM, and Spring Security** for robust application access.
* Proven ability to design, develop and deploy **microservices**-based applications, enhancing system modularity and scalability.
* Strong OOAD and construction skills using **MVC2** architecture, open source frameworks and technologies like **SpringBoot, JDBC** and **Log4j.**
* Designed and built scalable **REST APIs** using Java frameworks, facilitating efficient communication between applications.
* Implemented **asynchronous communication** patterns with **Kafka**, ensuring high throughput and fault tolerance for event-driven architecture.
* Designed and integrated with a custom **Event Framework** for efficient message routing and processing across various services.
* Configured and managed **Kafka topics, producers, and consumers** to ensure reliable and efficient data flow within **distributed systems**.
* Developed applications leveraging Kafka's **publish-subscribe** messaging model to facilitate **asynchronous communication** and decoupled services.
* Implemented event-based **Google Protobuf messages** to enable seamless integration between disparate systems, improving scalability and fault tolerance.
* Experienced in troubleshooting and optimizing Kafka performance, ensuring high availability and data integrity in event-driven environments.
* Utilized Kafka Streams or Kafka Connect to build real-time data pipelines and integrate with various data sources and sinks.
* Hands-on experience with **SQL** databases (e.g., **PostgreSQL**, **Oracle**, **MySQL**), including database design, query optimization, and data modeling.
* Utilized PuTTY to establish an SSH connection to a database virtual machine and executed **DDL** commands to configure the database schema.
* Developed complex **SQL CRUD queries** to support application functionality to store and retrieve the data.
* Optimized database performance in SQL Server, PostgreSQL, and MySQL through **query tuning, indexing**, and database configuration.
* Implemented audit tables to track data changes and utilized **Flyway** for database schema versioning and migration management.
* Utilized database **partitioning** strategies to improve data retrieval speeds and established scheduled **purging** processes to manage data retention and optimize storage.
* Hands-on experience with NoSQL databases such as **MongoDB.**
* ​​Experience in optimizing **MongoDB** performance through proper indexing, and shard allocation**.**
* Integrated with **websphereMQ** for reliable messaging and legacy system connectivity, ensuring interoperability with existing infrastructure.
* Demonstrated ability to identify and resolve performance bottlenecks, optimizing database calls and implementing **caching** techniques.
* Experienced in designing and implementing custom **exception handling** mechanisms to provide clear and actionable error reporting.
* Proficient in utilizing **HTTP** methods (GET, POST, PUT, DELETE, PATCH) for effective API communication.
* Strong understanding of **HTTP** protocol fundamentals, including request/response cycles, headers, and status codes.
* Utilized **CI/CD** pipelines for automated build, test, and deployment of applications.
* Designed **CI/CD** workflows that incorporated environment-specific configurations, minimizing manual intervention and reducing deployment errors.
* Commitment to writing clean, testable code and implementing comprehensive unit tests using frameworks like **JUnit** and **Mockito**.
* Good working knowledge in implementing secure authentication and authorization mechanisms using **JWT, OAuth 2.0,** and **Spring Security**.
* Experience in developing Single Page Applications (**SPA**) using **JavaScript ES5/ES6, TypeScript**, frameworks such as **Angular** and **ReactJS**.
* Experience in developing and designing User Interface applications and web applications using **HTML/HTML5, CSS/CSS3, Object Oriented JavaScript, ES5, ES6, Bootstrap, jQuery, AJAX, Angular 12+, NodeJS, NPM, Git, Webpack, Jasmine, Karma, RESTful Services, ReactJS, Redux, Flux, React-Router, React-Bootstrap, React-Native.**
* Proficient in designing and developing **MEAN** Stack (MongoDB, Express, Angular, NodeJS) and **MERN** (MongoDB, Express, React, NodeJS) stack web applications.
* Deep Understanding of **JavaScript** concepts such as Objects, Closures, Hoisting, RegEx, Prototypes, Callbacks, Document Object Model (DOM) manipulation and Libraries and DOM Functions compatibility.
* Proficient in utilizing **Angular's** core and advanced features, including component-based architecture, reactive forms, routing, state management, and custom directives, to build scalable and maintainable front-end applications.
* Leveraged **React's** component-based architecture and advanced features like hooks and context to create performant and maintainable single-page applications.
* Experience with Styling and Responsive Design techniques using technologies such as **LESS**, and **SASS** as CSS preprocessors and modern techniques such as **Flexbox**.
* Experience in designing and developing applications through extensive use of J2EE Design Patterns like **Singleton, Model-View-Controller, Front Controller, Data Access Object**.
* Experience in building reusable components, custom directives, decorators, and services to interface with REST API’s and deploying web applications using **Angular**, **TypeScript** and **Webpack**.
* Excellent working knowledge and thorough exposure on compatibility issues with different versions of browsers like **Internet Explorer, Mozilla Firefox, Safari,** and **Google Chrome.**
* Developed certain features of the application functionality i.e. "**CRUD** (Create, read, update, delete)" features using **NodeJS**, **Express.js** as middleware.
* Expertise in unit and integration testing using Jasmine, **Mocha**, **Karma** and **Jest**.
* Debugged code using web development tools like **Firefox, Chrome Developer Tools, Firebug,** and **IE Developer Tools** and used **JIRA** for bug and issue tracking.
* Proficiency with the use of Visual Studio, WebStorm, Eclipse, IntelliJ and eclipse-based IDEs.
* Thorough participation in requirement gathering, requirement analysis, code reviews and iterative testing.

# **Technical Skills:**

| **UI Web Technologies** | HTML/HTML5, CSS/CSS3, LESS, SASS, JavaScript, ECMAScript  5/6, jQuery, Bootstrap, Material, AJAX, JSON, XML, Angular 6+, D3.js,CI/CD, NodeJS, NPM, Express.js, ReactJS, Next.js, ES5,ES6,Redux, Flux, Figma |
| --- | --- |
| **Databases** | Oracle, MySQL, Postgres, IBM DB2 |
| **Developer Tools** | Visual Studio Code, IntelliJ, Notepad++, Eclipse IDE, Sublime Text, web storm, MS Office, GIT, SVN, Bit Bucket, Jenkins |
| **Web/App Server** | Apache Tomcat, WebLogic. |
| **Web Services** | RESTful |
| **Languages** | JavaScript, SpringBoot, Java, Python |
| **Testing & Debugging**  **Tools** | JIRA, Firebug, Chrome Developer Tools, IE Developer Tools,  Jasmine, Mocha, Jest, Karma, Vtest, Adobe Target |

**Education**

* + Masters in Computer Science, San Jose State University - San Jose, CA (2021 - 2022)
  + Bachelors in Computer Science & Engineering, CVR College of Engineering - INDIA (2012-2016)

**Certifications**

* + Oracle Certified Associate Java Developer (04/2017)
  + AWS Certified Cloud Practitioner *(02/2023)*

**Professional Experience**

# **Client: Mastercard Aug 2023- Feb 2025**

# **Role: Java Developer**

**Responsibilities**

* + Proactively employed as a **Java** backend developer, actively contributing to the core team's initiative to modernize the legacy application using **PCF** cloud architecture.
  + Leveraged modern Java 11 features, including streams, lambdas, and enhanced collections, to optimize backend application performance and maintainability.
  + Leveraged Spring Boot's powerful annotation-based configuration, streamlined JPA repositories, and efficient data mapping techniques to build robust and scalable backend services.
  + Successfully integrated communication between 3 distinct **Spring Boot** applications using innovative **event-based architecture** and technologies like **Kafka, Websphere MQ** and **EventFramework**.
  + Meticulously created **topics** and carefully configured the application's **producer** and **client** policies to ensure seamless data flow across different domains.
  + Strategically stored and fetched data in Oracle and Postgres databases, securing sensitive information with **HashiCorp** Vault. This involved consideration of **design patterns** for data access.
  + Implemented audit tables to track data changes and utilized **Flyway** for database schema versioning and migration management.
  + Strategically stored and fetched data related to these records on **Oracle** and **Postgres** databases for efficient retrieval.
  + Significantly increased application performance through strategic implementation of thread pools, optimized database query execution using **Spring JPA repository**, and effective **caching** mechanism.
  + Applied error handling mechanism through **Exception** **handling** strategies.
  + Implemented dynamic application property configuration, enabling seamless deployment across diverse environments (development, staging, production) through environment-specific property files and variable injection.
  + Consistently written unit test cases using **JUnit, Mockito, Sonar, and Jacoco** to precisely test individual class functionality and ensure 95% code coverage.
  + Actively participated in **CI/CD** tasks using **Jenkins** to effectively promote code to higher environments in the **PCF** **cloud** and leveraging monitoring tools like **Splunk** for monitoring and analysis.
  + Implemented **Spring Security** to manage user authentication and authorization, ensuring secure access to application resources.
  + Collaboratively worked with different teams to effectively analyze and **troubleshoot** issues encountered during integration testing.
  + Diagnosed and rectified critical environmental problems across diverse cloud platforms, contributing to consistent application performance and reliability.
  + Actively engaged in peer reviewing using GIT and Bitbucket to share insights and contribute to knowledge improvement.

**Environment:** IntelliJ, PCF cloud, Apache Maven, SpringBoot, Kafka, Axon, EventFramework, Putty, Oracle, PostgreSQL, JUnit, Mockito, Sonar, GIT, Bitbucket, Jenkins, Rally, JIRA, Splunk, Dynatrace

# **Client: State Street Aug 2021- Aug 2023**

# **Role: Backend Developer**

**Responsibilities:**

* Contributed to microservices application development using **Spring Boot**, gaining hands-on experience with **RESTful API** design and implementation.
* Implemented data validation and security measures, demonstrating a strong understanding of data integrity and security principles, which are crucial for **backend** development.
* Utilized **Java** and **Spring** Framework with **Hibernate** to map to Oracle databases, gaining experience in object-relational mapping and database interactions.
* Skilled in securing RESTful APIs using JWT and OAuth, enabling secure communication between services.
* Developed and maintained REST APIs, ensuring that all coding complies with Enterprise Standards and adheres to development guidelines, demonstrating knowledge of backend API development.
* Proficient in TDD (Test Driven Development), writing test cases using **Mockito and JUnit.**
* Experienced in writing complex SQL queries to retrieve and manipulate data, optimizing for performance and efficiency.
* Experienced in utilizing JPA (Java Persistence API) and Hibernate for object-relational mapping (ORM), simplifying database interactions and improving data persistence in Java applications.
* Worked in using ReactJS components, Forms, Events, Keys, Router, Animations, and Flux concepts.
* Enhanced the look and feel of the web pages using CSS libraries like **Bootstrap and Material**.
* Worked on responsive design and developed a single ISOMORPHIC responsive website that could be served to desktop, tablets, and mobile users using ReactJS.
* Maintained states in the stores and dispatched the actions using **Redux**.
* Added Excel-Builder to download the Tabular data in Excel format using ReactJS.
* Initiated **Microservices** application through **Docker** and **Kubernetes** cluster formation for scalability of the application.
* Used javascript **D3** library to build maps on the user interface.
* Familiarity with **Figma's** responsive design features and adaptive components for designing responsive interfaces.
* Implemented PHP-based CMS to easily set up customer websites with **MySQL**.
* Used Spring Framework with Hibernate to map to Oracle database and mapping using Hibernate Annotations.
* Built **Angular 8** framework including MVC architectures, different modules, templates, custom directives, and custom filters.
* Used Angular 8 framework where data from the backend is stored in the model and populated to UI.
* Used **Bootstrap** and Angular UI Bootstrap for creating rich, Responsive UI Screens for varying screen sizes and devices.
* Developed and implemented **MongoDB** schemas for efficient data storage and retrieval in high-volume applications.
* Integrated **MongoDB** with backend applications to store and retrieve unstructured or semi-structured data.
* Implemented unit and integration testing for all layers of the applications using frameworks like

# **JUnit, Spock, Mocha, and Jasmine**.

* Extensively worked on the CI/CD tools such as **Jenkins, Git and Maven**, and created workflows in Jenkins.
* Interacted with the backend team by working on Restful Web Service calls in **NodeJS** and

# **ExpressJS**.

* Used **NPM** for installing required node modules and other published Angular NPM modules.
* Developed REST APIs to ensure that all coding complies with Enterprise Standards and adheres to development guidelines.

**Environment:** HTML5, CSS3, AWS, JavaScript, jQuery, DOM, JSON, NodeJS, Angular 8+, React JS, Redux, ES6+, AJAX, RESTFUL API, Java, SpringBoot, MySQL, Docker, Kubernetes, Git, LESS/SASS, Adobe Target, Web pack, Bootstrap, Material, Figma.

# **Client: Morgan Stanley, NY Feb 2018- Dec 2020**

# **Role: Software Engineer**

**Responsibilities*:***

* Analyzed requirements from the customer and written requirements, technical design Involved in all the phases of Software Development Life Cycle (SDLC) including Requirements gathering, Designing, Programming, Testing and Documentation of various projects.
* Interaction design, iOS and Android design, UI and a working knowledge of CSS and HTML
* Working knowledge on developing the UI pages from scratch using HTML5, CSS3, JAVASCRIPT,

# **ANGULAR, REACT JS, ES5, Ajax** and **JQuery**.

* CSS styles were developed to preserve the uniformity of all the screens throughout the application and positioning of screen objects.
* Used **Node** and **Java** as the backend framework to fetch data from the web services such as

**REST** and **SOAP**.

* Good understanding of the data patterns such as XML, JSON.
* Involved in Agile methodologies and full software development life cycle of Designing, coding, testing, debugging and support.
* Developed a single page application in **Angular and React** javascript libraries.
* Created Single Page Application with loading multiple views using route services and adds more user experience to make it dynamic by using **Angular**.
* Build Web Apps with React JS and Flux. Structured the JavaScript code using Angular
* Integrating JavaScript libraries ( jquery , React - **Bootstrap** , Highcharts , Datatables , etc.)
* Creating React.JS / Redux front-end UI, and Node.JS applications for backend.
* Leveraged React.JS resources for all data access, encapsulating URLs and standardizing data access interfaces.
* Create Single Page Applications (SPA’s) using **ReactJS**.
* Maintaining Parent and child elements by using State and Props in React.js.
* React and Functional Driven JavaScript expert in SPAs, UI Components, Mobile web and Performance optimization.
* Created a custom filter in React.JS in the application.
* Used services to read data from a remote server using React.JS.
* Used React.JS library functions for the logical implementation part at client side for all the applications.
* Created React.JS for reusable components (multi-field form elements, background file uploads).
* Maintained states in the stores and dispatched the actions using **redux**.
* Developed various screens for the front end using React JS and used various predefined.
* Used **ES6** and JSX with react for component development with ReactJS.
* Implemented the Drag and Drop functionality using React-Draggable.
* Created React JS components using JSX, followed FLUX design pattern for unidirectional data flow.
* Involved in Developing, Implementing and Testing Node.JS applications.
* Developing the Tables, Stored Procedures, Triggers, Indexes and Functions SQL Server.
* Involved in SCRUM and AGILE meetings to discuss the status of the project.
* Integration with Rich Relevance/CDN/CMS/Optimize.
* Developing the rich UI components in Optimizely
* Extensively Used GitHub for Version Controlling.
* Used JIRA as the bug tracking system to track and maintain the history of bugs/issues on everyday basis.
* Skilled at creating controllers, models, filters, and services using Angular to create Rich UI applications.
* Used Firebug and IE Tester debugging tools to fix the issues.
* Involved in System Testing, Regression Testing for Complete UI.

**Environment:** React.js, Redux, Flex, Angular 6+, Node.JS, Express JS, JavaScript, HTML5, SAAS, CSS3, jQuery, JSON, XML, Bootstrap, AJAX, Core Java, Mocha, ES5, MVS, WebDriver, Sublime, GIT, Grunt, Firebug, Agile development, Optimizely, Jira.

**Client**: **Healthfirst Technology, Hyderabad June 2016- Feb 2018**

**Role: UI Web Developer**

Responsibilities:

* Excellent in front-end UI design implementations by writing HTML5/HTML, CSS3/4/CSS, Bootstrap,

**JavaScript, jQuery** and **JSP** to make better Single Page Application SPA.

* Responsible for checking cross browser compatibility and worked on different browsers like Internet Explorer, Firefox and Google Chrome.
* Used NPM for installing required node modules and other published Angular NPM modules.
* Worked Extensively with **Angular CLI** for creating components, Services, pipes, Directives.
* Updated the application with new features of Angular 4.
* Worked on some of the new features of Angular 4 like new if else syntax, ng-templates, form

validators.

* Developed single page applications using Angular 2/4, **Typescript**, web pack and grunt.
* Familiar enough in writing watch commands and gulp commands.
* Used Angular custom Directives for reusable DOM manipulation and Services to implement Dependency Injection.
* Used custom Angular Pipes to write display-value transformation.
* Experience in building application with React JS, Redux, **AngularJS**, Require

JS in MVC architecture.

* Created web services and desktop applications to access and display data needed by support teams using React.js.
* Worked extensively on **JavaScript**programming for the web application development like React js.
* Good knowledge on creating services with Angular 2 and Angular 4 @injectable property, as to make the service available for dependency injection when creating components.
* Converted landing pages to single page applications with AngularJS routing, filters, and application.
* Created various controllers, views using MVC framework Angular 2/4.
* Worked with HP Quality Center for defect tracking and Task Management.
* Worked on Git Repository for code integration and version control.
* Hands-on experience in creating Angular factories for using angular services like $http and $resource to make **RESTful API** calls to the Java based backend.
* Created Reactjs for reusable components (multi-field form elements, background file uploads.
* implemented Reactjs Controllers to maintain each view data.
* Architected and Developed for Large Scale JavaScript Application with Reactjs
* Integrated Redux Framework with React to handle large chunks of data for the better performance.
* Worked extensively on JavaScript programming for the web application development like React.
* Good Experience on Quality Control, JIRA for tracking the tickets like accepting the tickets/defects,

Submitting the tickets, Reviewing Code and closing the tickets etc.

* Good hands on knowledge on Angular 2 and Angular 4 Templates, like writing inline template
* Developed JSPs and Servlets to dynamically generate HTML and display the data to the client side Extensively used JSP tag libraries.
* Excellent Client interaction skills and proven experience in working independently as well as in a team.

**Environment**: HTML5, CSS3/4, JavaScript, Angular (1.x/2/4), Angular CLI, ReactJS, Redux, TypeScript, JavaScript, Node.js, NPM, Java, jQuery, Bootstrap, Ajax, GIT, SVN, Jasmine, Karma, Gulp, Grunt, Spring MVC, Web services, Micro Services