

# MOHAMMED MUZAMMIL

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## PROFESSIONAL SUMMARY:

12+ years of experience in designing, developing, and deploying enterprise applications across finance, telecom, healthcare, and government domains. Specialized in migrating legacy Java 8 monoliths into Java 11/17 Spring Boot REST-based microservices, leveraging Hibernate ORM, Spring Data JPA, and relational databases (PostgreSQL, MySQL). Experienced Full Stack developer across various front-end frameworks such as Angular, React JS, JSF, HTML, and CSS. Strong expertise in AWS (EKS, ECS, S3, EC2, RDS), event-driven architecture using Kafka, and distributed systems design. Skilled in building cloud-native architectures with Kubernetes, EKS, Terraform, Docker, and CI/CD pipelines (Jenkins, GitHub Actions, Azure DevOps). Extensive experience with Java Streams, Lambdas, multithreading, executor pools, and design patterns to deliver resilient, scalable, and high-performing systems. Proficient in working within Linux/Unix environments for deployments, automation, and system administration. Actively leverage AI-assisted development tools including GitHub Copilot, VS Code Gemini, and internal enterprise AI platforms to accelerate refactoring, improve code quality, and support large-scale modernization initiatives while retaining architectural ownership. Deep experience with Java Streams, Lambdas, multithreading, executor frameworks, and design patterns to deliver resilient, scalable, and high-performing systems. Proficient in Linux/Unix environments for deployments, automation, and system-level operations.

## TECHNICAL SKILLS

Java (17, 11, 8), TypeScript, Node.js, JavaScript, Python

Spring Boot, Spring MVC, Spring Data JPA, Hibernate ORM, Struts, Drools

REST-based Microservices, SOAP Webservices, GraphQL APIs

Relational Databases (PostgreSQL, MySQL, Oracle, SQL Server), NoSQL (MongoDB, Cassandra, Cosmos DB)

AWS (EKS, ECS, EC2, RDS, S3, CloudFormation), Azure, GCP

Kafka for pub/sub messaging, event-driven systems, and streaming analytics

Linux/Unix systems for deployments, shell scripting, log management, and performance monitoring

Terraform for Infrastructure as Code

Front-end frameworks such as Angular and React.js

Kubernetes, EKS, OpenShift for container orchestration

Java Streams & Lambdas for functional programming

Multithreading, Executor Pools, Concurrency management

CI/CD tools and DevOps practices (Jenkins, GitHub Actions, GitLab CI, Azure DevOps)

Cloud-Native Architecture & Distributed Systems Design

Resilience patterns with Resilience4j (Circuit Breaker, Retry, Bulkhead, RateLimiter)

## **PROFESSIONAL EXPERIENCE:**

### **State of Texas TWC- Remote November 2025- Till Date**

#### **Full Stack Engineer**

##### **Responsibilities**

Lead end-to-end redesign and modernization of the TWC Fraud Submission Portal, upgrading legacy components to a modern Angular 19 + Java 17 stack while preserving regulatory and accessibility requirements.

Migrate backend services from Java 8 to Java 17, refactoring legacy codebases to align with modern Java standards, improve performance, and ensure long-term maintainability.

Develop and maintain Spring Boot microservices deployed on JBoss EAP 8 (RHEL 8), supporting secure fraud intake, validation, and downstream processing.

Re-architect the frontend UI using Angular (Leaf / Bootstrap 5 templates) to improve usability, accessibility, and responsiveness across devices.

Implement RESTful APIs and integrate frontend and backend workflows with clear separation of concerns and contract-driven development.

Apply WCAG and Section 508 accessibility standards, performing testing with WAVE and JAWS screen reader, and remediating issues related to ARIA labels, keyboard navigation, color contrast, and semantic structure.

#### **Actively use AI-assisted development tools to accelerate delivery and improve code quality:**

Use VS Code Gemini for code refactoring, boilerplate reduction, debugging assistance, and test case generation.

Leverage internal TWC AI tools to analyze legacy code, validate logic changes, and accelerate modernization without altering business rules.

Improve developer productivity by leveraging AI for code reviews, impact analysis, and migration guidance, while retaining full ownership of architectural and implementation decisions.

Build and maintain CI/CD pipelines using Jenkins, automating build, test, and deployment workflows triggered from GitHub branches.

Manage Git workflows including feature branching, pull requests, conflict resolution, and controlled merges into shared modernization branches.

Configure environment-specific builds (dev/prod), externalize configuration using properties files, and ensure secure handling of secrets and certificates.

Collaborate with cross-functional teams including QA, accessibility reviewers, and state stakeholders to deliver compliant, production-ready releases.

Perform production support and post-deployment validation, addressing defects, performance issues, and accessibility findings in a regulated government environment.

## **State of Texas HHSC – Remote**

### **Full Stack Engineer February 2025 – October 2025**

#### **Responsibilities**

Migrated a legacy Java 8 monolith into Java 17 Spring Boot and Java EE (JSP, EJB, JMS) microservices with Hibernate ORM and JPA2 for persistence.

Deployed microservices on JBoss EAP 8 with clustering and tuned configurations for high-volume transactions.

Designed relational schemas and wrote Oracle 12c PL/SQL stored procedures, triggers, and indexing strategies to optimize performance.

Worked with Cursor as the AI IDE

Conducted peer code reviews to ensure adherence to Java EE and PL/SQL best practices, and mentored junior engineers on JBoss deployment and Hibernate optimization.

Implemented Kafka-based event-driven communication, OAuth2/Okta authentication, and resilience patterns with Resilience4j.

Developed Angular 19 UI with Signals, Angular Material, and dynamic nested forms for state-driven user experiences.

Implemented resilience patterns with Resilience4j, including Circuit Breaker, Retry, and Bulkhead for fault tolerance.

Configured CI/CD pipelines with Jenkins, GitHub Actions, and Azure DevOps for automated builds, tests, and deployments on Linux-based servers.

Applied Java Streams & Lambdas to simplify collection processing, parallel computation, and multithreaded workflows.

Improved application performance with executor pools for background tasks and concurrent processing.

## **T-Mobile- Remote March 2024- Jan 2025**

## **Java Full-stack Developer**

### **Responsibilities**

Developed customer-facing portals using React, Vue 3, and TypeScript integrated with REST-based and GraphQL APIs.

Built Spring Boot microservices with Hibernate ORM and PostgreSQL for billing, plan management, and upgrades.

Leveraged Kafka for real-time event streaming and event-driven communication between microservices.

Implemented CI/CD pipelines with Jenkins and GitLab, deploying containerized services on AWS EKS clusters running on Linux/Unix nodes.

Applied cloud-native architecture principles to optimize scalability, resilience, and performance of distributed systems.

Designed APIs with Spring Data JPA and secured them using JWT and OAuth2 with role-based access control.

Optimized application performance with Java Streams, Lambdas, and multithreading for concurrent processing.

Applied Terraform to manage AWS infrastructure provisioning and scaling on Linux environments.

Designed distributed caching and service discovery patterns for fault-tolerant systems.

## **State of Texas- Remote Sep 2023- Feb 2024**

### **Java Full-stack Developer**

### **Responsibilities**

Developed accessible web portals for citizens using Vue 3 with WCAG compliance.

Integrated government APIs for processing public records and services.

Created complex form-based applications with validation and dynamic fields.

Implemented user roles with Vue Router guards for role-based access control.

Integrated mapping services into web applications for location-based state services.

Developed bilingual interfaces to support English and Spanish-speaking residents.

Created data-driven visualizations for public-facing dashboards using React and D3.js.

Implemented secure authentication flows for sensitive state applications.

Used TypeScript interfaces to standardize communication between frontend and backend APIs in service applications.

Implemented data visualization dashboards with TypeScript-based chart libraries like D3.js and Chart.js for presenting public data.

Ensured seamless integration with legacy systems by creating TypeScript adapters for API communication.

Applied TypeScript enums and advanced types to enforce data consistency in compliance with Section 508 standards.

Automated report generation and formatting tasks using TypeScript-based templating libraries.

Optimized application bundle sizes to improve load times for users with limited internet access.

Developed offline-capable Progressive Web Apps for critical state services.

Created responsive email templates for state communications using Angular.

Integrated Dynatrace APM for comprehensive application performance monitoring, optimizing microservices for improved response times.

Implemented service mesh architecture using Istio on OpenShift for enhanced security and traffic management between microservices.

Developing and deploying Java cloud-based applications and employing Spring Boot Java to develop rapidly, document, test, and deploy RESTful microservices and serverless functions accessing relational and NoSQL databases.

Standardize engineering practices for security, observability, resiliency, and scalability concerns.

Implemented OAuth 2.0 and SAML-based authentication for secure access to state services.

SQL/NoSQL data stores, caching, global data replication

Influence Software development best practices across full-stack engineers in an agile environment.

Expertise in building SOAP and REST APIs on Cloud platforms (AWS/Azure/GCP)

Microservices design patterns like API Gateways, Service Discovery/Registries, Distributed Tracing

Building Reactive systems and Async, non-blocking communication expertise

Test-driven development expertise, working with tools like Mockito and automation frameworks like Selenium.

Own engineering solutions for product capabilities around data pipelines, analytics, machine learning, monitoring, etc.

### **Morgan Stanley Inc., Remote July 2022- August 2023**

#### **Java Full-stack Developer**

#### **Responsibilities:**

Designed high-performance trading platforms using Java EE (JSP, JMS, EJB) integrated with Spring Boot microservices and React frontends.

Deployed applications on JBoss EAP and AWS EKS, optimizing for throughput and failover.

Implemented Oracle 12c PL/SQL stored procedures and Hibernate-based ORM for transaction-heavy workflows.

## **Produced dynamic dashboards and regulatory reports using JasperReports.**

Conducted peer code reviews and provided mentorship on concurrency patterns (Java Streams, Lambdas, executor pools).

Leveraged Kafka for real-time stock/forex event processing and secured applications with OAuth2, SAML, and Okta.

Humana, Inc., Louisville, KY November 2020- June 2022

## **Lead I- Front End Engineer**

### **Responsibilities:**

Designed patient portals and telemedicine solutions using Angular, React, and Spring Boot microservices.

Integrated EHR systems securely using Spring Data JPA with PostgreSQL and Oracle databases.

Implemented Kafka-based event-driven architecture for asynchronous processing of insurance claims.

Deployed cloud-native applications on GCP Kubernetes clusters, using Terraform for infrastructure management and Linux/Unix shell scripts for log management.

Improved HIPAA compliance with OAuth2/SAML authentication and encrypted data flows.

Optimized back-end with multithreading and executor pools for concurrent transaction processing on Linux servers.

Configured CI/CD pipelines using Jenkins and GitHub Actions for automated deployments and regression testing.

Created distributed systems design for scalable notification services, leveraging microservices and Kafka.

Verizon Communications, Inc., Irving, TX June 2019- October 2020

## **Java Full-stack Developer**

### **Responsibilities:**

Built a California Consumer Privacy Act (CCPA) portal using Java EE (JSP, Servlets, JMS) and Spring Boot REST APIs.

Integrated Hibernate JPA2 with Oracle 12c/PL-SQL and PostgreSQL for compliance-related data storage.

Configured deployments on JBoss EAP and AWS Lambda/API Gateway, managing infrastructure with Terraform.

Implemented JasperReports to generate privacy compliance documents and customer reports.

Participated in peer code reviews, ensuring adherence to enterprise coding standards, and mentored new hires on Oracle and JBoss deployments.

Leveraged Kafka for event-driven compliance workflows and applied distributed tracing for monitoring.

Connecticut Department of Labor, Wethersfield, CT January 2019 – June 2019

## **Java Full-stack Developer**

### **Responsibilities:**

Developed applications using Java EE (JSP, Servlets, EJB, JMS) and MVC patterns deployed on WebSphere Liberty and JBoss EAP.

Created SOAP APIs for system integration and used JasperReports for generating data-driven reports.

Designed and optimized PL/SQL packages, stored procedures, and triggers on Oracle 12c, ensuring efficient transaction handling for sensitive state data.

Built UI panels with JSF, ReactJS, and AngularJS, ensuring WCAG accessibility compliance.

Implemented Hibernate ORM mappings and JPA2 entities to support persistence across Oracle and SQL Server databases.

Collaborated in code reviews and mentored junior developers in writing optimized SQL queries and adhering to Java EE design standards.

Automated builds and deployments using Jenkins and Maven within Linux/Unix environments.

Participated in creating database objects like tables, views, Materialized views, cursors, procedures, packages using Oracle tools like PL/SQL, SQL\*Loaded, and Handled Exceptions.

Worked in all phases of SDLC, including requirements analysis, design and development, bug fixing, supporting QA teams, and debugging production issues.

Developed user interface using HTML5, CSS3, JavaScript, Dojo, AngularJS, ReactJS, jQuery, and Bootstrap to provide user interface and communication between the client and server.

Used Eclipse IDE for designing, coding, and developing applications. Involved in the development of the presentation layer and GUI framework using HTML. Client-Side validations were done using JavaScript.

Used Squirrel SQL Client to interact with the databases.

## **Principal Financial Group, Des Moines, IA August 2017 – Dec 2018**

### **Java Full Stack Developer**

### **Responsibilities:**

Followed Agile software development and most phases of the Software Development Life Cycle (SDLC), including business requirement analysis, design, implementation, and testing.

Developed presentation layer and GUI Framework using CSS3 and HTML5, and Client-Side validations were done using JavaScript and some server-side validations with Java.

Elaborated on the Use Cases based on business requirements and was responsible for creating class diagrams and sequence diagrams to understand the existing architecture.

Involved in writing Spring Configuration XML file that contains declarations and another dependent object declaration.

Created the React.JS express Server combined with Socket.io to build the MVC framework from the front-end side of Angular JS 2 to the back-end MongoDB to provide broadcast and chatting services.

Worked with React JS components, Redux Forms, Events, and Router.

Used JSF, HTML5, CSS3, Bootstrap, and jQuery-UI to develop the user interface (UI) panels.

Developed backend web services using Node.JS and stored dependencies using NPM.

Involved in building stable React components and stand-alone functions to be added to future pages.

Developed Single Page Applications (SPA) using Angular2.

Involved in developing and designing multithreaded programming, session tracking, and exception handling in microservice architecture-based applications.

Worked on different management tools such as Quality center (QC) and Application Lifecycle Management (ALM),

Created and managed a Docker deployment pipeline for custom application images in the cloud using Jenkins.

Used Web Services- WSDL, SOAP for client-side exchange rate calculation, and Restful JAX-RS to communicate over the network using Spring Boot.

Used Node JS for asynchronous data communication between server and client.

Used various Core Java concepts such as Multi-Threading, Exception Handling, Collection APIs, and Garbage collections for dynamic memory allocation to implement various features and enhancements.

Developed Hibernate configurations and session-per-request design patterns for connecting to database connectivity and accessing the sessions for database transactions.

Designed and implemented Java engine and API to perform direct calls from front-end JavaScript (ExtJS) to server-side Java methods.

Developed JUnit test cases with JMock for the components to ensure all the developed code.

Used Log4J for exception logging and tracing user-desired messages.

Build scripts on AWS cloud for scheduling EC2, Auto Scaling, and Elastic load balancer with Java.

Involved in post-production support and maintenance of the application.

Created end-to-end CI/CD pipeline using Concourse CI for packaging, deploying, and testing automatically across multiple AWS environments, from development to production.

Provide domain expertise of open-source and commercial relational DBMS products and services (Oracle 11g/12c, SQL Server, Postgres, AWS RDS, AWS Redshift) and NoSQL databases (e.g., MongoDB, Cassandra, Dynamo DB).

Developed test scripts with Ruby-Selenium to automate browser & web applications under Cucumber (BDD) Framework.

Used JDBC for accessing a database to track all accounts sessions, including Quotes, financial details, and Provider/Member info with all selected criteria.

Worked in all phases of SDLC, including requirements analysis, design and development, bug fixing, supporting QA teams, and debugging production issues.

GE Energy – Atlanta, GA March 2015 – November 2016

## **Full Stack Developer**

### **Responsibilities:**

An agile methodology using JIRA for issues and sprints.

Used Spring Boot and was also involved in setting up the Spring Bean profiling.

Developed REST services using Spring Data REST to serve the UI with required JSON data.

Consumed SOAP/JAX-WS-based web services using Spring Framework and used SOAP UI for testing these services.

Developed Angular controllers, services, and filters and HTML templates with various Angular directives such as ng-app, ng-controller, ng-repeat, ng-show, ng-hide, ng-change, etc.

Used various Angular UI Bootstrap components such as calendars, masks, uploaders, sliders, alerts, modal dialogs, etc. For developing the UI.

Build REST web service by building a Node.js server on the back end to handle requests sent from the front-end jQuery Ajax calls.

Made the integration of data in several applications in favor of JSON documents with dynamic schemas using MongoDB (NOSQL) database.

Created various MongoDB collections, wrote services to store and retrieve user data from for the application on devices and used Mongoose API to access the MongoDB from NodeJS.

Regularly used tools like GIT and Maven.

Created Test Plans for the QA team.

Involved in setting up applications with Jenkins and AWS in part; helped with Docker scripts.

Maximus Inc, Reston, VA September 2013 – February 2015

## **Java Developer with UI**

### **Responsibilities:**

Involved in several stages of SDLC by gathering the needs, analyzing the user specifications, implementing, debugging, and maintaining, and participating in Water Fall methodology for development.

Developed test cases and followed the Test Driven Development (TDD) methodology for unit tests using the Jasmine test framework with the Karma test runner.

Developed several algorithms for generating several data patterns.

Used jQuery for web page animation.

I used Node.js for the back-end design to interact with the database.

Used jQuery to navigate the page jumps. Used jQuery handling events for UI page handle validation and form validation.

Designed responsive web page by using CSS media queries to adjust the page layout under a specific type of device.

Adopted SVN as the version control tool.

## **EDUCATION:**

Bachelor's in computer science from JNTUH. 2013

Master's in computer information technology from California University of Management & Science. 2017