Murtuza Mohammed

murtuzasalman88@gmail.com   *Calgary, AB*

Professional Summary

Senior Software Engineer with 4+ years of experience designing and developing Java- and Spring Boot–based applications across full-stack environments. Proven track record in delivering scalable, reliable systems and optimizing application performance, including measurable latency improvements. Strong experience building RESTful APIs and enterprise-grade services with a focus on maintainability, high availability, and production stability.

Core Technical Skills

Backend & APIs

- Java (Core Java)
- Spring Boot
- RESTful API Development
- Hibernate, JPA
- Apache Camel (Enterprise Integration)
- JWT-based Authentication

Databases & Data Stores

- PostgreSQL
- MySQL
- SQL Server
- MongoDB
- Azure Cosmos DB

Cloud & DevOps

- AWS (EC2, RDS, SageMaker)
- Docker
- CI/CD Pipelines (Azure DevOps)
- Agile Development

Frontend Technologies

- React
- JavaScript
- Thymeleaf
- Bootstrap

Testing & Quality

- JUnit
- Test-Driven Development (TDD)

Version Control & Tooling

- Git
- Jira
- IntelliJ IDEA
- Eclipse

Machine Learning & AI (Project-Based)

- Python
- TensorFlow
- Keras
- Scikit-learn
- Regression, Classification, Deep Learning, NLP, Reinforcement Learning

Professional Experience

Full-stack Developer (Java, React.js) – Skoopr

Sep 2025 – Present | Calgary, AB

- Designed and developed enterprise-grade backend applications using Java, Spring Boot, and Hibernate, delivering scalable, reliable, and maintainable systems.
- Built RESTful APIs with Spring Boot and JPA, supporting communication between backend services and frontend applications.
- Integrated Azure Cosmos DB, designing collections and optimizing queries to support high performance, scalability, and data integrity.
- Implemented enterprise integration workflows and asynchronous communication using Apache Camel, improving system modularity.
- Improved application performance through caching, lazy loading, and query optimization, reducing average response times by 25%.
- Automated build and deployment processes using Azure DevOps CI/CD pipelines, streamlining release cycles.
- Collaborated with QA and DevOps teams to resolve production issues and maintain 99.9% uptime.
- Produced technical documentation covering REST endpoints and architecture to support maintainability and team handoffs.

Senior Full Stack & AI Engineer – Whiz Solutions Inc.

Sep 2023 – Sep 2025 | Calgary, AB

- Led the design and development of full-stack enterprise applications using Java, Spring Boot, Node.js, and React, delivering scalable, high-performance solutions.
- Architected containerized microservices with Docker and deployed cloud-native applications on AWS (EC2, RDS, SageMaker), supporting reliability and high availability.
- Developed secure authentication and authorization mechanisms using JWT-based authentication, ensuring compliance with security standards.
- Implemented enterprise integration patterns using Apache Camel to enable data exchange between distributed systems.
- Streamlined CI/CD pipelines and applied Test-Driven Development within Agile environments, reducing deployment-related defects by 30%.

- Built and optimized machine learning models using TensorFlow, Keras, and Scikit-learn for sentiment analysis, computer vision, and reinforcement learning use cases.
- Deployed ML pipelines to production using Amazon SageMaker Guardrails, enabling fault-tolerant model updates.
- Engineered a synthetic data generation framework, producing 10,000+ annotated images to improve object detection accuracy.
- Developed responsive frontend interfaces using React, Thymeleaf, and Bootstrap, integrated with RESTful APIs and SQL/NoSQL databases.
- Collaborated with cross-functional teams to deliver solutions spanning backend services, data engineering, and production deployment.

Full-stack Developer *(React.js, C#) – Peace Hills Utilities Inc.*

Apr 2025 – Jul 2025 | Calgary, AB

- Developed secure role-based access controls using ASP.NET Web API for multiple user roles.
- Built customer and job management modules supporting document uploads, scheduling, and e-signatures.
- Integrated invoicing workflows with automated generation, email delivery, and payment tracking.
- Developed a React.js-based user interface tailored for field technicians, supporting task management and media uploads.
- Enabled near real-time QuickBooks synchronization for customers, invoices, and payments.
- Used GitHub for version control and Trello for project tracking.

Full Stack Java Developer – Pilog India Pvt Ltd

Dec 2021 – Jul 2023 | Hyderabad, India

- Designed and developed Java-based applications for finance and petrochemical clients.
- Migrated legacy systems from JDK 8 to JDK 17, improving performance by 40%.
- Built RESTful APIs using Spring Boot, integrating third-party systems and securing endpoints with JWT.

- Collaborated cross-functionally to gather requirements, define scope, and meet delivery timelines.
- Improved application response times by 30% through targeted performance optimization.
- Established CI/CD pipelines with DevOps teams to streamline build and deployment processes.
- Designed scalable database models and implemented data access layers using Hibernate and JPA.
- Mentored junior developers and participated in code reviews within Agile teams.