BALA SUJA K

Full Stack Java Developer

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PROFESSIONAL SUMMARY

Results-driven Full Stack Java Developer with 2 years of experience in designing and developing scalable, high-performance applications. Proficient in Java, Spring Boot, and Kotlin, with strong expertise in building RESTful APIs and microservices. Skilled in creating responsive front-end interfaces using React.js, HTML, Tailwind CSS, and Bootstrap. Experienced with Git, Agile methodologies, and collaborative development environments. Passionate about writing clean, efficient code and continuously enhancing technical skills to drive organizational success.

SKILLS

Java, Kotlin, Spring Boot, Microservices, REST API, GraphQL, Hibernate, JPA, PostgreSQL, React.js, HTML, CSS, Bootstrap, Tailwind CSS, Git, Swagger, Postman, JUnit, API Testing, Agile, UI/UX Collaboration, Figma, Debugging, Database Management, Data Structures, Machine Learning

WORK EXPERIENCE

KADIT Innovations | 12/2023 – present | Kadayanallur, India

As a Full Stack Developer, I work across the entire development lifecycle—from understanding requirements and designing databases to building backend APIs and contributing to frontend features. I create well-structured database models (BCNF) and develop secure, high-performance systems using Java, Kotlin, Spring Boot, and Microservices. I also have hands-on experience with React, TypeScript, and Tailwind for frontend tasks.

I have built complete APIs, implemented authentication and gateway integrations, written unit tests, optimized databases, set up CI/CD pipelines, and contributed to architecture decisions in major projects.

Project 1: Transportation Platform

Tech Stack: Java, Spring Boot, Spring MVC, Microservices, API Gateway, JWT Security, Hibernate, JUnit, Logging, PostgreSQL, Docker, CI/CD, Tailwind CSS, TypeScript, Postman

➢ Analyzed requirements, created BCNF-normalized database schema, and designed API structures for the entire application.
➢ Developed complete RESTful API modules (GET, POST, PUT, PATCH, DELETE) using Spring Boot following clean architecture.
➢ Implemented API Gateway + JWT-based authentication for secure communication between services.
➢ Built backend features for ride booking, user management, live tracking, fare calculation, and map integration.
➢ Performed SQL optimization, indexing, and PostgreSQL database tuning for faster response time.
➢ Used Hibernate ORM for data handling and implemented DTO, validations, and exception handling.
➢ Created Postman collections and executed functional, integration, and regression testing.
➢ Worked on the frontend using TypeScript + Tailwind CSS, integrating APIs and building UI screens.
➢ Participated in CI/CD pipeline setup, Docker-based deployment, and version control workflows.

Project 2: Healthcare Application

Tech Stack: Kotlin, Spring Boot, Microservices, Hasura ORM, GraphQL, ZITADEL Authentication, APISIX API Gateway, Docker, Temporal Workflow, Swagger

➢ Analyzed requirements and designed a fully normalized BCNF database model and API architecture.

- ➢ Developed all backend services and RESTful APIs (GET, POST, PUT, PATCH, DELETE) using Spring Boot.
- ➢ Implemented JWT-based authentication and configured an API Gateway for secure routing.
- ➢ Integrated live tracking and map-based features for ride management.
- ➢ Added centralized logging, custom log formats, and monitoring for debugging and traceability.
- ➢ Developed global exception handling using `@ControllerAdvice` and standardized error responses.
- ➢ Wrote comprehensive unit tests using JUnit and Mockito to improve reliability and code coverage.
- ➢ Used Hibernate for ORM and optimized PostgreSQL queries for better performance.
- ➢ Built frontend pages with TypeScript + Tailwind CSS and integrated backend APIs.
- ➢ Worked with Docker containers and contributed to CI/CD deployment setup.

P R O J E C T S

1. E-PostOffice – Full Stack Postal Service Application
Tech Stack: Java, Spring Boot, MySQL, React JS

- ➢ Built a full-stack application simulating core postal services such as parcel booking, tracking, and user management.
- ➢ Designed a normalized **MySQL schema** and implemented backend REST APIs using **Spring Boot** with proper validation and exception handling.
- ➢ Developed frontend modules in **React JS**, integrating all backend APIs for seamless customer workflows.
- ➢ Implemented authentication, role-based access, and database CRUD operations for admin and customer features.
- ➢ Ensured modular coding with clear separation of layers (Controller, Service, Repository).

2. Credit Card Fraud Detection – ML-Based Fraud Classifier
Tech Stack: Python, Machine Learning, Flask, Pandas, Scikit-learn

- ➢ Built a Machine Learning model to detect fraudulent credit card transactions using classification algorithms.
- ➢ Performed **data preprocessing, feature scaling, imbalance handling (SMOTE/undersampling)** and trained multiple ML models.
- ➢ Deployed the model through a **Flask API**, providing real-time prediction of fraud probability.
- ➢ Implemented a UI/endpoint to input transaction details and return the fraud detection result.
- ➢ Evaluated model using precision, recall, confusion matrix, and ROC-AUC metrics.

3. TechCompare – Technology Comparison Platform
Tech Stack: React, TypeScript, Tailwind CSS, Python (FastAPI/Flask), PostgreSQL

- ➢ Developed a platform that allows users to compare technologies (frameworks, languages, tools) with detailed feature-based insights.
- ➢ Built responsive frontend screens using **React + TypeScript + Tailwind CSS**.
- ➢ Implemented backend APIs in **Python** to manage tech categories, parameters, comparisons, and user interactions.
- ➢ Designed and optimized a **PostgreSQL schema** for storing tech data, ratings, and comparison metrics.
- ➢ Integrated search, filters, and dynamic comparison results for a smooth user experience.

E D U C A T I O N

MCA 2021 - 2023, Manonmaniam Sundaranar University, Tirunelveli
BCA 2018 - 2021, Sri Parasakthi College, Courtallam