

DINESH KUMAR BEHERA

BANGLORE, India 560037 | +91 8599826627 | iam.dinesh.behera@gmail.com

Professional Summary

Results-oriented Senior Software Engineer with 8.5+ years designing, developing, and deploying robust, scalable Java applications using Spring Boot and Microservices architectures. Proven ability to enhance system performance, strengthen security, and significantly reduce release cycles through automation. Proficient in full-stack development, leveraging React.js for user interfaces, with experience across FinTech (Wealth Management) and Automotive (Diagnostics) domains. Collaborative team player within Agile frameworks, focused on delivering high-impact, user-centric solutions.

Core Competencies

- Proficient in core Java technologies, including OOP, multithreading, collections, exception handling, serialization, garbage collection, string handling, and generics, with expertise in utilizing the latest Java features.
- Extensive experience in utilizing Spring Framework, including **Spring Boot**, **Spring MVC**, **Spring Core**, and **Spring Hibernate**, to design and build robust, scalable applications. Up-to-date with Spring 6 features for enhanced performance and modern architecture.
- Proven track record of successfully implementing **Spring Cloud** and microservices for building agile and efficient software solutions, using modern tools such as Istio and Linked for service mesh architecture and monitoring.
- Perfect in Spring Security, ensuring top-notch application security in various projects using Spring Boot. Skilled in **OAuth2** with **JWT** token creation, as well as **SAML** and **OpenID Connect** for secure **authentication** and **authorization**.
- Proficiency in **Spring Data JPA**, **Spring**, and **Spring Cloud**, with a strong understanding of advanced design patterns such as **Singleton**, **Factory Method**, **Proxy**, and **Abstract**. Also experienced with emerging patterns like **CQRS** and Event-Driven Architecture.
- Experienced in setting up and **optimizing CI/CD** pipelines using essential **DevOps** tools like **Jenkins**, **GitLab CI/CD**, and **GitHub Actions**. Utilizes containerization tools like **Docker** and **Kubernetes** for seamless deployment.
- Skilled in managing and monitoring cloud infrastructure on AWS, using services such as **EC2**, **ECS**, **IAM**, **S3**, **EKS**, and **Lambda**. Also experienced in **Terraform** and **AWS CloudFormation**.
- Proficient in monitoring applications and infrastructure with **Grafana**, visualizing data from various sources such as **Prometheus**, and building dynamic dashboards for effective performance analysis and real-time insights.
- Proficient in modern build and deployment tools such as **Maven** and **Gradle**, with a focus on optimizing project dependencies and builds for faster delivery cycles and better project management.

Skills

Category	Technology
Frontend Development	HTML, CSS, JavaScript, TypeScript, React.js
Backend Development & Architecture	Java, Spring Boot, Spring MVC, RESTful API, GraphQL, Microservices Architecture, Hibernate, Apache Kafka
Security	OAuth2, JWT, Spring Security
Data & Databases	MySQL, PostgreSQL, Oracle, MongoDB, Cassandra, Redis, Elasticsearch
DevOps & CI/CD	GitLab CI/CD, Jenkins, Maven, Docker, Kubernetes, AWS, Azure
Monitoring & Logging	Prometheus, Grafana, Splunk, Elasticsearch, Kibana

Experience

Capgemini Technology Services

Senior Software Engineer

OCT 2021 to Till

Client: Royal Bank of Canada (RBC)

Project: Wealth Management(ROADTOCLOUD)

- ROAD is a physical security certificate tracking system originally developed in 1997, modernized in 2007, and being further updated in 2024. This web application is used by approximately 75 users of RBC's operations and alternative investment group.
 - There were a growing number of non-compliance issues related to its legacy nature, and concerns were raised about platform flexibility. As a result, both the business and IT decided to identify this application as a candidate for modernization, as part of the US Wealth Management's security and robustness program. The objective of the project was to migrate the application to a modern cloud platform, upgrade its technology stack and address all existing concerns.
 - We embarked on a remarkable journey of end-to-end development of the ROAD legacy application. By harnessing the power of Spring Boot microservices and React, we successfully modernized the entire system while delivering unparalleled efficiency and user experience.
 - Designed, developed, and optimized RESTful APIs and GraphQL endpoints for seamless data exchange between front-end systems (React) and backend microservices. Ensured API consistency and maintainability using OpenAPI specifications and Swagger.
 - Implemented robust security measures using Spring Security, integrating OAuth2 with JWT, and experienced with SAML/OpenID Connect, ensuring compliance with financial industry standards and safeguarding sensitive client data.
 - Implemented decoupled, resilient systems using messaging queues like Apache Kafka and RabbitMQ, enhancing system responsiveness, auditability, and asynchronous processing capabilities.
 - Designed, built, and maintained end-to-end CI/CD pipelines using Jenkins, GitLab CI/CD, and GitHub Actions. Automated build, comprehensive testing (JUnit 5, Mockito, Testcontainers), security scanning (SonarQube, OWASP Dependency-Check), and deployment processes across multiple environments.
 - Configured and utilized monitoring tools like Prometheus and Grafana for real-time insights into application performance and system health. Implemented logging solutions using Splunk, Fluent Bit, and Logstash.
 - Provided technical guidance, conducted code reviews, facilitated pair programming, and mentored junior developers, fostering a culture of high code quality, collaboration, and continuous learning.
- Key technologies: Java, Spring Boot, Microservices, REST/GraphQL, React.js, Spring Security, OAuth2, JWT, Apache Kafka, RabbitMQ, Cassandra, Redis, AWS (EKS, EC2, S3, IAM), Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, ArgoCD, Prometheus, Grafana, SonarQube.

Senior Software Engineer

Client: Genworth Financial (GF)

Project: Hydra Ecosystem

- Re-architecture of a monolithic platform to a cloud-native microservices architecture with Spring Boot. This significantly reduced infrastructure costs and made the platform much more scalable to handle increased demand.
 - Developed and maintained high quality production services using Java, Spring Cloud, and Spring Cloud Config. Secured APIs using industry standard OAuth2 and OpenID Connect.
 - Designed and developed rich user interfaces using React.JS focusing on reusable components, advance styling, and efficient state management to enhance the user experience for customers.
 - Automated the deployments using scripting and automation.
 - Implemented a secure, scalable data pipeline to improve data consistency and safeguard sensitive financial data across distributed systems, ensuring compliance with industry regulations.
- Key technologies: Java, Spring Boot, Microservices, Spring Cloud, Spring Cloud Config, OAuth2, OpenID Connect, React.js

WIPRO Technology Pvt Ltd.

Senior Software Engineer
Client: Comcast Corporation
Project: Camunda Network OM

MAR 2018 to SEP 2021

- Contributed significantly as a Senior Developer to an automated network operations platform that streamlined Comcast's commissioning and management of network equipment (routers, switches), replacing manual workflows to drastically reduce errors and operational time.
- Designed and built the backend microservices architecture using Spring Boot, deploying containerized applications on AWS; developed robust REST APIs capable of handling high-volume network configuration requests.
- Modernized network device management practices by implementing standardized configuration models, transitioning away from manual CLI commands towards more reliable, automated processes.
- Enhanced application responsiveness and performance through strategic caching implementations and database query optimization.
- Established robust CI/CD pipelines enabling frequent and reliable feature delivery; implemented comprehensive monitoring and logging solutions for rapid identification and resolution of production issues.
- Enabled automated provisioning capabilities, directly supporting Comcast's transition towards next-generation network architectures.
- Led an Agile development team, coordinating sprint activities to ensure on-schedule delivery of quality features, and improved incident response processes for faster issue resolution.
- Key technologies: Java, Spring Boot, Microservices, AWS, REST APIs, Caching, CI/CD, Monitoring, Logging, Agile, Camunda, Kubernetes, Docker.

Senior Software Engineer
Project : Guardian P2P & Graph API (Email Security Enhancement)
Client: GP Procurement

- Designed and integrated Multi-Factor Authentication (MFA) using AWS Cognito and Azure AD, requiring users to provide alphanumeric tokens or TOTP codes as a second identity layer, reducing unauthorized access incidents within 6 months.
- Leveraged Microsoft Graph API to automate permission management and audit security logs, enabling real-time monitoring of user activities and flagging anomalous login attempts.
- Built a token generation system using Python/Flask, ensuring secure storage/transmission via JWT encryption (AES-256) and AWS KMS for key management.
- Aligned MFA workflows with GDPR standards, conducted penetration testing with the cybersecurity team, and implemented audit trails for compliance reporting.
- Worked in Agile teams with DevOps to deploy the solution on AWS Lambda and Azure Functions, reducing latency through serverless architecture.
- Modernized the client's legacy email infrastructure by developing REST APIs to bridge MFA workflows with on-premises Exchange servers.
- Created technical documentation and conducted workshops for the users, improving adoption rates by 90% and reducing support tickets related to authentication.
- Key technologies: Java, AWS Cognito, Azure Active Directory, OAuth2, Graph API, RESTful APIs, JWT, Flask, Docker, PostgreSQL

Ascendum Solutions India Pvt. Ltd.

Senior Software Engineer
Client: Volvo Trucks
Project: Diagnostic Trouble Codes (DTC) Management System

NOV 2017 to JAN 2018

- Served as a Senior Developer on Volvo's global diagnostic platform, enhancing the automation of fault code interpretation and troubleshooting workflows.
- Designed and architected the system's core using a microservices approach with Java/Spring Boot and Hibernate, deployed in Docker containers orchestrated by Kubernetes (AWS EKS & Azure AKS).
- Developed REST APIs to ensure seamless data exchange between the new platform and legacy vehicle ECU/dealer systems; utilized GraphQL for complex diagnostic data queries.
- Optimized system performance via database query tuning and caching implementations; established CI/CD pipelines with automated testing to enable frequent and reliable production releases.
- Integrated key technologies including Kafka for real-time truck telemetry streaming (engine RPM, fault

codes), Elasticsearch/Kibana for enhanced logging and diagnostics visualization, and robust OAuth2/JWT security (AWS KMS signed) alongside role-based access controls.

- Deployed the multi-cloud solution across AWS (EC2, Lambda, S3) and Azure (Functions, Blob Storage) to ensure high scalability and meet EU data residency regulations.
 - Contributed to the development of predictive diagnostics features and utilized AWS IoT Greengrass for specific on-board vehicle data processing tasks.
 - Collaborated within the Agile team, translating requirements into technical solutions and creating comprehensive documentation and training materials for engineering teams.
- **Key technologies:** Java, Spring Boot, Hibernate, Microservices, Docker, Kubernetes, RESTful APIs, Caching, CI/CD, Automated Testing, Logging, Monitoring.

Mfx Infotech Pvt Ltd (A Qness Company)

Senior Software Engineer

Sep 2016 to Sep 2017

Client: Intrado Corporation (WEST)

Project: Meridian Data Provisioning System

- Developed a multilingual intranet application that significantly enhanced Intrado's global data provisioning capabilities and internal collaboration.
 - Designed and implemented a scalable, fault-tolerant microservices architecture using Spring Boot and React.js, ensuring high application availability.
 - Developed secure and efficient RESTful APIs with Spring Boot for reliable data exchange between microservices.
 - Built responsive, dynamic front-end interfaces using React.js to improve user interaction and streamline data delivery across global regions.
 - Collaborated effectively with both technical and non-technical stakeholders to translate complex business needs into actionable technical specifications.
 - Contributed to operational stability by resolving production issues and implementing necessary fixes and improvements.
 - Implemented JWT-based authentication across microservices to safeguard sensitive emergency communication data and user credentials.
 - Optimized database performance for high-volume transactions by designing effective PostgreSQL schemas and implementing proper indexing and query tuning.
 - Established a clear API versioning strategy to maintain backward compatibility throughout system upgrades and feature rollouts.
 - Developed an automated testing framework using JUnit and Mockito, achieving 85% code coverage for critical microservices and enhancing code quality.
- **Key technology:** Java, Spring Boot, Microservices, REST API, Hibernate, Oracle, PostgreSQL, Elasticsearch, JWT, JUnit, Mockito

Websites, Portfolios and Profiles

<https://www.linkedin.com/in/dinesh-behera-0017b1360/>

Contact

H N Prabhakar Reddy Building, Sapthagiri Layout, Munnekolala, Marathahalli, Bangalore-560037

Education

Bachelor of Engineering, Computer Science & Engineering - Biju Patnaik University of Technology (BPUT), Odisha - 2008 - 2012 (7.9 CGPA)

Hobbies and Interests

- Traveling
- Fitness
- Nutrition
- Musics