

# ATHARVA LABHASETWAR

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## PROFESSIONAL SUMMARY

Java Full Stack Developer with 3.10+ years of experience designing and delivering scalable microservices, event-driven distributed systems, and RESTful APIs in the Banking & Financial Services (BFSI) domain, including retail banking, capital markets, and digital payments. Proven track record at Barclays-aligned environments — achieved 12x API performance improvement through JPA Entity Graph optimisation. Deep expertise in Java 21, Spring Boot 3.x, Spring Cloud, Spring Security (OAuth2, JWT, SSO, RBAC), Apache Kafka, Resilience4j, Redis, and React JS. Experienced in OpenAPI-driven API design, CI/CD pipeline management (GitHub Actions, Jenkins), unit & contract testing (JUnit, Mockito, PACT), and cross-functional Agile/Scrum delivery. Committed to secure coding practices, high availability architectures, and continuous technical excellence.

## TECHNICAL SKILLS

**Languages:** Java 21, Java 8, JavaScript (ES6+)

**Backend Frameworks:** Spring Boot 3.x, Spring MVC, Spring Cloud, Spring Security, Spring Data JPA, Hibernate, Maven, JDBC

**Microservices & Architecture:** Microservices Architecture, Apache Kafka, Kafka Streams, Dead-Letter Queue (DLQ), Transactional Outbox, API Gateway, Circuit Breaker (Resilience4j), Load Balancer, Event-Driven Architecture, Distributed Systems

**Frontend:** React JS, HTML5, CSS3, JavaScript (ES6+), JSP, Bootstrap, Webpack, Vite

**API & Security:** REST API Design, OpenAPI (Swagger), OAuth2, JWT, Spring Security, Azure Key Vault, RBAC, SSO, Identity Management, PII Encryption (AES/RSA), Secure Coding Practices

**Testing:** JUnit, Mockito, Jest, PACT (Contract Testing), TDD, Unit Testing, Integration Testing, Postman

**DevOps & CI/CD:** GitHub Actions, Jenkins, GitLab CI/CD, Docker, SonarQube, SonarLint, Git, GitHub, GitLab

**Databases:** PostgreSQL, MySQL, Oracle SQL, PL/SQL, Redis, Elasticsearch, Hibernate ORM, Spring Data JPA

**Observability:** Dynatrace, Grafana, OpenTelemetry, Splunk, Kafka UI, Offset Explorer

**Methodologies:** Agile, Scrum, TDD, Code Review, SDLC, Design Patterns, Software Architecture Principles

**AI Developer Tools:** GitHub Copilot, ChatGPT, Gemini, Cursor

## PROFESSIONAL EXPERIENCE

**Senior Associate Consultant** | Infosys Limited | Pune, Maharashtra

*Domain: Banking & Financial Services (BFSI) — Royal Bank of Canada (RBC) | Capital Markets & Retail Banking | October 2024 – Present*

- Designed and developed scalable RESTful microservices using Java 21 and Spring Boot 3.x for RBC's Capital Markets platform — covering account inquiry, liquidity management, debit hold management, and real-time transaction processing; authored OpenAPI (Swagger) specifications to standardise API contracts across teams.
- Achieved 12x API performance improvement — reduced critical API response time from 12 seconds to under 1 second by diagnosing N+1 query problems and implementing JPA Entity Graphs, directly improving end-user experience in production.
- Engineered Apache Kafka-based event-driven architecture with producers, consumers, and Kafka Streams for high-volume transaction processing, enabling real-time data streaming and asynchronous messaging across distributed microservices at high throughput.
- Implemented OAuth2 and JWT-based security controls, integrated with Spring Security for API Gateway authentication and authorisation — enforcing RBAC and SSO across microservices in compliance with enterprise security standards.
- Implemented resilience and fault-tolerance patterns using Resilience4j circuit breakers and retry mechanisms, ensuring high availability and fault tolerance across distributed microservices in production.
- Built centralized configuration management using Spring Cloud Config integrated with Git, eliminating environment-specific configuration drift across services.
- Implemented Kafka retry mechanism and Dead-Letter Queue (DLQ) to ensure graceful failure handling and zero message loss in high-throughput production environments.
- Adopted TDD practices — wrote comprehensive unit tests using JUnit and Mockito to validate business logic, mock external dependencies, and maintain high test coverage; introduced PACT contract testing for microservice API compatibility verification.

- Automated CI/CD pipelines using GitHub Actions and Jenkins with SonarQube integration for static code analysis, supporting monthly production deployments across dev, staging, and production environments.
- Implemented Redis caching to reduce database load and improve API response times for frequently accessed data across high-traffic microservices in the Capital Markets platform.
- Implemented PII data encryption using AES/RSA with Secure Enclave-based key management, SSO, and RBAC controls to protect sensitive customer data at rest and in transit.
- Developed React JS components for internal Capital Markets dashboards, improving operational usability and enabling faster data visualisation for business teams.
- Led Spring Boot version migration in production and Java 21 refactoring initiative using GitHub Copilot — resolved compatibility issues and maintained code quality through systematic regression testing.
- Designed reusable internal library frameworks for standardised CRUD operations and multi-vendor API integration, reducing code duplication and enforcing consistent patterns across microservices.
- Led cross-functional Agile/Scrum ceremonies — sprint planning, daily stand-ups, and peer code reviews — driving on-time sprint delivery across distributed teams.

### **Java Full Stack Developer | Virtusa Consulting Services Pvt. Ltd. | Hyderabad, Telangana**

*Domain: Banking & Financial Services (BFSI) | June 2022 – October 2024 (2 years 5 months)*

- Designed and deployed microservices-based applications using Java, Spring Boot, and Spring Data JPA, delivering measurable improvements in system accuracy, API response times, and operational efficiency.
- Built and consumed RESTful APIs with optimised data access layers using Spring Data JPA, enabling seamless frontend-backend integration.
- Developed reusable React JS components, improving frontend development workflows and reducing user-reported bug incidents through enhanced component stability.
- Implemented OAuth2 and Spring Security controls across backend services, remediating critical CVEs and strengthening application security posture.
- Applied unit testing strategies using JUnit and Mockito to validate business logic, increasing code coverage and reducing regression defects in production.
- Conducted code reviews, identified performance bottlenecks, and enforced clean code standards to maintain high software quality across the team.
- Authored API documentation using OpenAPI/Swagger standards, improving developer onboarding speed and reducing cross-team integration friction.
- Participated in full SDLC activities — requirements gathering, development, testing, and deployment — collaborating with cross-functional teams across design, QA, and DevOps.

## **KEY PROJECTS**

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### **RBCCM — Royal Bank of Canada Capital Markets**

*Tech Stack: Java 21, Java 8, Spring Boot 3.x, Apache Kafka, Redis, Elasticsearch, GitHub Actions, Jenkins, OAuth2, JWT, Azure Key Vault, MySQL, Spring Cloud Config, JUnit, Mockito, PACT, GitHub Copilot*

- Developed and enhanced REST APIs for customer onboarding, account reserve, account inquiry, balance enquiry, and liquidity management with high availability and fault tolerance requirements.
- Implemented Kafka consumer/producer services for real-time transaction processing in high-throughput Capital Markets environments with DLQ and retry patterns.
- Led Java 21 service refactoring using GitHub Copilot — reduced manual effort and maintained production stability throughout migration.
- Practised TDD throughout development lifecycle — authored unit tests with JUnit/Mockito and contract tests with PACT to validate service API compatibility.
- Ensured system stability by remediating CVEs and security vulnerabilities; coordinated deployments across DEV, QAT, CITP, and production environments.

### **Patient Monitoring & Alert System**

*Tech Stack: Spring Boot, Eureka Server, API Gateway, Circuit Breaker, Resilience4j, Load Balancer, Spring Cloud Config, MySQL, Hibernate*

- Designed a healthcare microservices application for real-time monitoring of patient vitals with automated alerts — implementing service discovery, fault tolerance, and centralised configuration for high availability and zero-downtime operation.

### **Grocery Shop Management System**

*Tech Stack: Spring Boot, Spring Security, OAuth2, RBAC, JSP, HTML5, CSS3, Bootstrap, MySQL, JavaScript*

- Developed a full-stack e-commerce application with OAuth2/RBAC using Spring Security, supporting admin and customer workflows for inventory and order management.

## EDUCATION

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### **Bachelor of Engineering – Computer Engineering | CGPA: 8.90 / 10**

*Savitribai Phule Pune University, Pune, India | 2018 – 2022*

## CERTIFICATIONS & ACHIEVEMENTS

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- Oracle Certified Associate — Java SE Programmer (1Z0-808)
- Top Performer & Hackathonist — Microservice Hackathon, Virtusa Consulting Services
- Executive Briefing: AI + ChatGPT — Certificate Course, Udemy
- Competitive Programming Participant — TechGig Coding Hackathons (C++)