

Mrudula Nimmala

Java Full Stack Developer

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PROFESSIONAL SUMMARY:

Results-driven **Senior Java Developer** with **5+ years of experience** designing, developing, and deploying scalable, secure, and high-performing **enterprise and cloud-based applications**. I specialized in **Full Stack Development, Microservices Architecture, Spring Boot, and cloud deployments on AWS**. Proven ability to **modernize legacy systems**, lead **Agile teams**, and implement **DevOps pipelines** ensuring code quality, automation, and continuous delivery.

- Hands-on experience developing applications using **Agile (SCRUM), Waterfall, Test-Driven Development (TDD), and Service-Oriented Architecture (SOA)**.
- Strong expertise in **Java/J2EE, Spring Boot, Spring MVC, Microservices, Hibernate, Spring Cloud, JDBC, JSP, and JUnit** frameworks.
- Built **RESTful and SOAP APIs** with secure communication layers, integrating with third-party services through **Apache Camel** and **Apache Kafka** for event-driven architectures.
- Proficient in **message-driven systems** using **Spring JMS, ActiveMQ, and Kafka** for asynchronous communication and real-time data streaming.
- Experience in **API orchestration and integration** using **Apache Camel**, handling routing, transformation, and aggregation of data between microservices.
- Skilled in designing and developing **cloud-native applications** using **AWS (EC2, S3, Lambda, ECS)** and containerization tools like **Docker** and **Kubernetes** for scalable deployments.
- Solid understanding of **NoSQL databases** like **MongoDB, DynamoDB**, and relational databases (**Oracle, MySQL, PostgreSQL**).
- Proficient in **code quality and testing** using **JUnit, Mockito, and SonarQube**; achieved **90%+ code quality** through coverage optimization, code smell resolution, and static analysis.
- Experienced in **API test automation** using **Postman**, including **test case creation and detailed reporting** to ensure endpoint accuracy and reliability.
- Familiar with **CI/CD pipelines** using **Jenkins, GitHub Actions**, and build tools like **Maven** for automated testing and deployment.
- Adept in **frontend technologies** such as **React.js, Angular, HTML5, CSS3, JavaScript (ES6+), and TypeScript**, enabling efficient full-stack development.
- Strong knowledge of **J2EE Design Patterns — Singleton, Factory, DAO, Front Controller, and Template Method** — applied across microservices and API layers.
- Skilled in **logging and observability** using **Splunk and Instana**, improving debugging and performance monitoring across distributed systems.
- Experienced in **secure coding practices**, implementing **OAuth2.0** and **JWT token-based authentication** for role-based access control.
- Documented technical architecture, design decisions, and feature specifications in **Confluence**, improving team collaboration and knowledge sharing.
- Excellent critical and analytical thinking, written and verbal communication skills, quick learning, rigid attention to detail and ability to work independently as well within a team environment.

- Interested in learning new technologies for career growth.

KEY SKILLS

- **Programming:** Java 8/11, Spring, Spring Boot, Microservices, Maven, Kotlin.
- **Frontend:** Angular, React, HTML5, CSS3, JavaScript, TypeScript
- **Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, Kubernetes, Jenkins, Git, YAML Configuration,
- **Messaging & Streaming:** Apache Kafka, RabbitMQ, JMS
- **Version Control:** Git, SVN, Git Stash By atlassian.
- **Databases:** MySQL, Oracle, PostgreSQL, MongoDB, DynamoDB
- **Testing & Tools:** JUnit, PowerMockito.
- **Logging:** Splunk, Instana.
- **Security:** OAuth2.0, JWT Token Authentication.
- **Documentation:** Confluence, JIRA, Postman

KEY ACHIEVEMENTS:

- **Resolved a critical production issue** in a telecommunications project where customer data was mismatched due to application pointing to a lower-level test database instead of the live production DB implemented validation checks and environment configuration fixes to prevent recurrence.
- Secured APIs via OAuth2 and Spring Security, **reducing vulnerabilities** flagged by **SAST tools**.
- **Containerized and scaled** enterprise Java applications using **Docker** and **Kubernetes** on **AWS**, improving reliability and deployment efficiency.
- **Improved deployment frequency** and delivery speed by implementing **CI/CD pipelines** using **Jenkins, and Docker**, automating build and test workflows.
- **Worked on API feature-related test case automation using Postman**, including **automated test execution and detailed report generation**, improving regression testing coverage and API reliability.
- **Achieved 90%+ SonarQube code quality** by developing comprehensive **JUnit test cases**, fixing **code smells**, and resolving **critical and major code bugs**, resulting in cleaner and more maintainable code.

EDUCATION:

- Master's in data science, California State University, East Bay - **Aug 2023 - May 2025**
- Bachelor's in computer science and technology, JNTUK, Andhra Pradesh, India - **Sept 2014- Aug 2018**

PROFESSIONAL EXPERIENCE:

Client: Infosys, Hyderabad, India

Apr 2022 to Jan 2023

Role: Sr. Java Developer

Client Description: Infosys, headquartered in Bangalore India, is a global leader in technology services and consulting, delivering next-generation digital solutions across industries, helping clients navigate their digital transformation journey.

Responsibilities:

- Served as the **main developer** for the **E-commerce Domain Skava/Equinox project**, building the core backend for the mobile storefront application.
- Designed and developed **Apache Camel routes using Kotlin and Java** to orchestrate front-end integrations with backend microservices, enabling seamless data flow and consistent user experience.

- Utilized **Swagger (OpenAPI)** documentation for API design and testing, improving developer collaboration and feature validation.
- Led **feature development** based on client specifications, including routing logic and API integration for enhanced shopping functionality.
- Debugged and resolved **critical production issues**, ensuring stability and minimal downtime in customer-facing services.
- Improved overall application **performance and scalability** through code optimization, caching, and database tuning.
- Ensured compliance with **SonarQube quality gates**, maintaining 90%+ code coverage and adherence to clean coding principles.
- Collaborated with QA, DevOps, and product owners in Agile sprints to deliver robust, high-performing features on schedule.

Environment: Java 8, Spring Boot, Apache Camel, Hibernate, RESTful APIs, Swagger, Maven, SonarQube, Instana, Splunk, Agile/Scrum.

Client: Capgemini, Hyderabad, India

Nov 2018 to Mar 2022

Role: Java Developer

Client Description Capgemini is a global technology consulting and services company providing digital transformation, engineering, and software development solutions across telecommunications, finance, and energy industries.

Responsibilities:

- Served as the **primary backend developer** in a large-scale **Telecommunications domain project**, focusing on customer fraud detection and validation APIs.
- Created APIs that detect **fraudulent customer activity** using integrations with **AuthenticID** for document and image verification, **LexisNexis** for customer history checks, and **OTP-based validation**.
- Integrated **NetCracker ICOMS** to fetch and synchronize real-time customer data across systems.
- Designed and implemented **Swagger (OpenAPI)** documentation to streamline API usage and testing.
- Debugged and optimized performance bottlenecks, significantly improving system response times.
- Worked with **Oracle SQL Developer** for stored procedures, indexing, and schema-level optimizations to enhance database performance.
- Developed and optimized **Jenkins CI/CD pipelines** for build automation and deployment.
- Authored **JUnit and PowerMockRunner (v4.0)** test cases, achieving 90%+ code coverage and passing SonarQube quality gates.
- Fixed application bugs reported in SonarQube, ensuring compliance with enterprise-level coding standards.
- Developed a **SOAP-based application** handling **non-pay enhancements** for a U.S.-based telecommunications client.
- Designed **data stream integrations** to publish and persist customer data from backend services into **Oracle SQL Developer**.
- Collaborated with senior architects to transition legacy services into modular, maintainable SOAP endpoints, ensuring backward compatibility.

Environment: Java 8, Spring Boot, SOAP/REST APIs, Oracle SQL Developer, Swagger (OpenAPI), Jenkins, JUnit, PowerMockRunner, AuthenticID and LexisNexis Thrid Party API integration, NetCracker ICOMS, SonarQube, Agile/Scrum.

FREELANCE PROJECTS:

Movie-Dekho application:

Github link::

<https://github.com/Mrudula666/moviedekho.git>

<https://github.com/Mrudula666/moviedekho-frontend.git>

MovieDekho – OTT Streaming Platform | Java Spring Boot, Angular, JWT, MongoDB, MySQL, Docker

- Designed and developed a **microservices-based OTT movie streaming platform** comprising **Catalog, Authentication, Payment, and Favorites** services, communicating via **REST APIs** and **OpenFeign** clients.
- Implemented **JWT-based authentication with role-based access control (RBAC)**, securing admin-only movie management features and user content access workflows.
- Built a **Movie Catalog Service** using **Spring Boot & MongoDB GridFS** supporting **CRUD operations, dynamic faceted search, and video playback streaming** with scalable media handling.
- Developed a **Payment & Subscription Service** using **Spring Data JPA**, enforcing **subscription uniqueness**, transaction time-stamping, and **secure API exposure** with tailored Spring Security + CORS configs.
- Delivered a **User Management Service** supporting **registration validation**, login, profile handling, and **subscription-triggered workflows**, orchestrating downstream services using **OpenFeign**.
- Implemented a **Favorites Aggregation Service** to persist and retrieve user-curated movie lists, with cross-service movie metadata resolution and **custom repository queries** ensuring referential integrity.
- Built a **frontend in Angular** with **Angular Material**, including **login/sign-up flows**, session persistence, JWT handling, and **route guards** to prevent unauthorized access.
- Created an **Admin Dashboard** enabling authenticated admin users to **add/update/delete movies**, upload media assets, and manage content lifecycle via **reactive Angular forms with validation & multipart file uploads**.
- Developed a **personalized User Dashboard** featuring **search, favourites, and direct-to-play streaming**, synchronizing state via session storage and backend APIs for seamless playback continuation.

Environment: Angular, Angular Material, RxJS, JWT Interceptors, Route Guards, Spring Boot, Spring Data JPA, Spring Security, Spring Cloud OpenFeign, Lombok, MongoDB GridFS, MySQL/PostgreSQL, JWT, RBAC, Maven, Docker, Postman, GitHub.