

Tejas Vilas Medade

Java Full Stack Developer

Mumbai, Maharashtra, IN | +91 9307710594 | tejasmedade@gmail.com | www.linkedin.com/in/medadetejas

Professional Summary

Dynamic and results-driven **Full Stack Java Developer** with over **3 years of experience** in designing, developing, and deploying scalable software solutions across **microservices architectures**. I have a strong track record of working in diverse industries, including **SAP** and **Finance**, where I contributed to the development of **RBI-compliant financial products**. Adept at leveraging both **backend technologies** (Java, Spring Boot, Hibernate, Elasticsearch, RabbitMQ) and **frontend technologies** (Angular, React, HTML5, CSS3, TypeScript) to deliver end-to-end solutions.

- **Successful modernization of legacy systems:** Spearheaded the transition of legacy JSP-based applications into **modern microservices** using **React** and **Spring Boot**, resulting in **increased scalability, performance, and a superior user experience**.
- **Financial Product Development:** Developed **secure, high-performance loan transaction systems** and financial applications aligned with **RBI guidelines**, ensuring robust **data encryption**, secure **JWT token authentication**, and high-level security protocols (e.g., **RSA encryption, HSM models**).
- **Innovative Backend Solutions:** Optimized data processing and system performance using **Elasticsearch** for real-time data visualization, and led the development of **high-capacity data management systems** and **automated reporting frameworks**.
- **End-to-End API Development:** Led the design, integration, and optimization of **RESTful APIs** and **gRPC services**, ensuring **efficient communication between frontend and backend** while adhering to **security best practices** like **role-based access control (RBAC)**, **rate limiting**, and **input sanitization**.

My expertise spans from **system architecture design**, **data migration**, **cloud-based deployments (AWS)**, to **advanced security measures**, while consistently maintaining a focus on system optimization, data integrity, and secure transaction processing. Passionate about **continuous learning** and staying at the forefront of emerging technologies, I thrive in **agile, fast-paced environments**, collaborating with cross-functional teams to solve complex problems and deliver impactful, high-quality products on time.

Work experience

Mahindra Finance, Mumbai

2024-06 - PRESENT

Java Full Stack Developer

- **Modernized Legacy System:** Successfully transitioned legacy JSP-based applications to modern microservices architecture using **React** for frontend and **Spring Boot** for backend, improving scalability, performance, and user experience.
- **React Component Development:** Led the design and development of new **React** components and applications from scratch, enhancing the user interface and ensuring smooth integration with backend services.
- **Database Management & Migration:** Worked with **Oracle DB**, creating data schemas and executing complex **data migrations**, ensuring seamless transfer and integrity of data across the new microservices.
- **API Development & Integration:** Developed and integrated **RESTful APIs** and backend services in **Spring Boot**, enabling efficient communication between frontend and backend while ensuring secure data exchange.
- **Deployment & Server Management:** Managed deployment processes using **Tomcat** and **JBoss**, optimizing application performance and ensuring smooth updates and rollouts in production.
- **Code Refactoring:** Led the refactoring of **legacy JSP** code to **Spring Boot** and **React**, improving code maintainability, reducing technical debt, and boosting development speed.
- **Procedure Development:** Designed and optimized **stored procedures** in **Oracle DB**, ensuring smooth backend operations and improving data processing efficiency.

Finance Product Development:

- **Loan Transaction System:** Worked on Mahindra Finance's internal product used for processing loan transactions, master sheet maintenance, and loan data management under **RBI** guidelines. The product facilitated the collection of data from loan applicants, processed it by the backend team, and facilitated approval or rejection of loans.
- **Financial Calculations & Model Implementation:** Implemented financial calculations and algorithms, including **HSM model** (Hardware Security Module), ensuring secure and accurate transaction processing in the loan system.
- **Data Security & Encryption:** Managed encryption and decryption of high-end loan transaction data, implementing **RSA encryption**, **signature encodings**, and **decryption mechanisms** to ensure data confidentiality and integrity.
- **Threat Analysis & Security Measures:** Identified and mitigated **SQL injection** vulnerabilities, conducted **threat analysis**, and implemented robust **input and payload sanitization** measures to prevent potential attacks.
- **Secure Authentication:** Implemented **JWT token** authentication and **Single Sign-On (SSO)**, ensuring secure access to sensitive data and transactions across the application.

- **Rate Limiting & Data Protection:** Developed and deployed **rate limiters** to protect against abuse and prevent denial-of-service attacks. Ensured robust encapsulation and secure handling of sensitive financial data.
 - **Logging & Monitoring:** Integrated advanced **logging** mechanisms to track user activity, monitor potential issues, and enhance overall system visibility for troubleshooting.
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Prospecta Software, Gurugram

2023-02 - 2024-06

Java Developer

- **Backend Development with Java & Elasticsearch:** Spearheaded end-to-end backend development using **Java** and **Elasticsearch**, enabling real-time data visualization and dynamically generated database tables, significantly enhancing system flexibility and user experience.
 - **Mass Upload Feature Implementation:** Led the implementation of a **mass upload** feature, improving data management efficiency by incorporating data validation, notifications, and generating detailed **Excel reports** to streamline workflows.
 - **Dynamic Date & Time Functionalities:** Developed **dynamic date** and time-based functionalities in **Angular**, ensuring seamless user experience while maintaining data consistency across multiple platforms.
 - **Enhanced Security & Reliability:** Engineered **time-based restrictions** and implemented **one-time-use email links**, strengthening system security and improving overall reliability.
 - **Elasticsearch Query Optimization:** Designed advanced **lookup rules** and **custom scripts** within **Elasticsearch**, optimizing complex data queries and enhancing search efficiency within the system.
 - **Memory Optimization & System Performance:** Pioneered a robust **mass record validation** system, optimizing **JVM memory utilization** and significantly improving system performance under heavy data load.
 - **Automated Reporting System:** Transformed complex **dashboard reports** into **PDF/PPT** formats using **AWS** infrastructure for automated report generation and delivery, enhancing reporting efficiency.
 - **Business Rules & Microservices Resilience:** Crafted bespoke **business rules** and fail-safe mechanisms within **microservices**, fortifying system resilience and ensuring uninterrupted service during peak times.
 - **High-Capacity Data Management System:** Led the development and deployment of a **high-capacity data management** system, streamlining data handling processes and improving data processing speed.
 - **API Development & Integration:** Proficient in **API development** using **gRPC** and **RestTemplate**, ensuring seamless automation and customized backend solutions tailored to business requirements.
 - **Data Import/Export Functionalities:** Worked on the **backend** and **frontend** of user dashboard functionalities, enabling **bulk data import/export** in **CSV** and **Excel** formats, providing flexibility and convenience to end-users.
 - **Cybersecurity & Code Improvements:** Implemented robust **security measures** to handle Sonar vulnerabilities and verbose **cybersecurity threats**, improving overall system integrity.
 - **User Profile & Authorization Features:** Developed features related to **user profiles** and **organizational settings**, including **license generation** through keygen and **authorization** functionality to strengthen application security.
 - **JWT Token & Authentication Enhancements:** Improved **JWT Token** implementation, enhancing **authentication** mechanisms and ensuring secure, reliable access across the platform.
 - **Automated Business Workflow Notifications:** Automated **email notifications** and **custom alerts** based on business workflows, ensuring seamless communication across user groups.
 - **Efficient Data Processing with Spark:** Utilized **Spark** technology to enhance data processing efficiency, enabling quick analysis and reporting of large datasets.
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Masai School, Bangalore

2022 - 02 - 2023 - 02

Full Stack Web Developer

- Completed a professional internship facilitated by Masai School, providing an immersive learning opportunity to gain hands-on experience in Full Stack Web Development. The program emphasized industry-aligned training, practical application, and problem-solving in real-world scenarios.
- Engaged in the design, implementation, and deployment of Java-based backend solutions, focusing on RESTful APIs, database integration, and enterprise application development. Acquired extensive experience with technologies and frameworks such as Spring Boot, Hibernate, Servlets, JSP, and Maven.
- Enhanced expertise in Data Structures and Algorithms through rigorous training and practical coding exercises, fostering efficient and optimized problem-solving skills.
- Collaborated in team-based projects, simulating professional development environments, and adhering to software engineering best practices. Developed robust technical and interpersonal skills essential for success in modern software development roles.
- This internship provided a strong foundation in Full Stack Development and equipped me with the tools to build scalable, maintainable, and efficient software solutions.

Freelance Web Designer

- **Collaborative Design:** Partnered with marketing strategists, creative directors, and web designers to develop impactful digital and print deliverables, including **digital ads, landing pages, social media graphics, newsletters, and sales decks.**
- **Web Design and Development:** Designed and maintained **responsive and user-friendly landing pages and microsites,** ensuring seamless integration of design and functionality. Collaborated with developers to optimize web assets and maintain consistency.
- **Design Optimization:** Produced **high-quality designs** aligned with brand guidelines, conducted **A/B testing** to assess performance, and implemented improvements based on analytics insights.
- **Brand Development:** Enhanced the **brand identity** by designing logos, typography, and visual style guides for consistent application across platforms.
- **Client Consultation:** Engaged directly with stakeholders to understand project requirements, recommend design solutions, and deliver **tailored creative assets.**
- **UI/UX Design:** Applied **user-centered design principles** to create intuitive user interfaces, developing **wireframes, prototypes, and visual mockups** to enhance website and mobile application user experiences.
- **Maintenance and Updates:** Monitored and updated web content, troubleshooting and resolving **design inconsistencies** and functionality issues to maintain optimal performance.

Writer Corporation, Mumbai

Human Resources Assistant

- Managed employee inquiries, maintained files, and coordinated training sessions.
- Conducted orientations, managed calendars, and ensured accurate record-keeping for new hires.
- Processed payroll, generated reports, and completed HR documentation ensuring compliance with policies.
- Stayed updated on HR trends and best practices to support organizational growth.

Education

Amity University, Mumbai

Bachelor of Architecture

- Specialized in **architectural design, construction techniques,** and **project management.**
- Proficient in **AutoCAD, Revit, SketchUp,** and **Adobe Creative Suite.**
- Completed internships applying architectural knowledge in real-world projects.

St. Xavier's College, Mumbai

HIGH SCHOOL - H.S.C - SCIENCE

- Strong focus on **physics, chemistry, biology,** and **mathematics,** building analytical and problem-solving skills.

Skills

Programming Languages & Frameworks

- Java, J2EE Web Services, Spring Framework (Spring Boot, Spring MVC, Spring Security, Spring Batch, Spring Data)
- Hibernate, Servlets, JSP, Core Java
- ReactJS, Angular, TypeScript
- gRPC, RESTful Web Services, REST APIs

Database & Data Management

- SQL, NoSQL, PostgreSQL, Elasticsearch, Oracle DB
- JDBC, DBMS
- Data Encryption, Decryption, HSM Model, RSA Encryption/Decryption

Development Tools & Technologies

- Maven, Jenkins, Apache Tomcat, JBoss

Web Development

- HTML5, CSS3, Bootstrap, Tailwind CSS
- JavaScript, TypeScript, UI/UX, Responsive Design
- ReactJS, Angular

Frontend Development Libraries & Tools:

- Redux or NgRx (State Management for React/Angular)
- SASS/SCSS (CSS Preprocessing)
- Jest, Mocha, Jasmine (Frontend Testing)

Version Control & Collaboration Tools:

- Git (GitHub, GitLab, Bitbucket)

- Elasticsearch, RabbitMQ

Security & Compliance:

- OAuth 2.0 / OpenID Connect
- JWT (JSON Web Tokens)
- Role-Based Access Control (RBAC)
- Cross-Site Scripting (XSS) Prevention, CSRF Protection
- Input Sanitization, Payload Validations, Rate Limiting
- Encryption/Decryption of API Payload and Responses.

Design Patterns & Methodologies:

- Object-Oriented Programming (OOP), Microservices Architecture, Event-Driven Design
- JSP & MVC Architecture

Cloud Platforms & Services:

- AWS (EC2)
- Docker

Soft Skills

- Creativity, Problem Solving, Attention to Detail
- Leadership, Teamwork, Collaboration
- Communication, Negotiation, Critical Thinking
- Continuous Learning

CERTIFICATIONS

N.A.S.A, C.O.A, India

2019 - 2020

N.A.S.A CAMPDES - INDIA

Participated in the N.A.S.A CAMPDES competition organized by the National Association of Students of Architecture (N.A.S.A), a prestigious event bringing together architecture students from colleges across India. The competition involved tackling a common design problem, showcasing creativity, innovation, and architectural skills. Proudly represented Amity University, Mumbai and emerged victorious as the winner.

CAMBRIDGE UNIVERSITY

2007 - 2008

MARRS SPELLING BEE

Qualified up to the India level in the prestigious MARRS Spelling Bee competition held by Cambridge University. Demonstrated exceptional spelling proficiency and linguistic skills, competing against participants from across the country. This achievement highlights dedication to language mastery and excellence in academic competitions.

- CI/CD Tools (Jenkins, GitLab CI)
- Agile & Scrum (JIRA, Trello, Confluence)

Testing & Debugging Tools:

- Selenium (Automated UI Testing)
- Postman (API Testing)
- JUnit, Mockito
- SonarQube, SQL Injection Prevention

Performance Optimization:

- Caching (Redis), Load Balancing & Auto-scaling
- Application Performance Monitoring (APM) (New Relic)

JSON & XML Processing

- JSON, XML