TEJAN VEDIVELLI

Vedivellitejan@gmail.com| +1 312-715-8201| LinkedIn | GitHub Portfolio| Medium

PROFESSIONAL SUMMARY

- Around 8+ years of experience as a **Java Full Stack Developer**, specializing in designing, developing, and deploying scalable and efficient solutions across various domains such as finance, compliance, business intelligence, asset management, and software development.
- Extensive expertise in **frontend development** using **React** and **Angular**, building dynamic and responsive user interfaces with reusable components and ensuring seamless user experience.
- Proficient in managing state management using tools like **Redux** and **Context API**, optimizing data flow and reducing boilerplate in large-scale applications.
- Skilled in leveraging modern UI libraries and tools such as **Material-UI**, **Bootstrap**, and **Styled Components** to create responsive, visually appealing web applications.
- Hands-on experience in **backend development** using **Java Spring Boot**, designing RESTful APIs and implementing **microservices architecture** for modular, scalable, and maintainable systems.
- Expertise in integrating **Spring Security** for robust authentication, authorization, and session management, enhancing application security.
- Developed batch processing pipelines using **Spring Batch** to handle large-scale data operations like ETL, data synchronization, and report generation.
- Experience with **Spring Data JPA** and **Hibernate** for efficient data persistence, reducing manual SQL and ensuring seamless interaction with relational databases.
- Deep knowledge of **message queue systems** like **Apache Kafka**, **RabbitMQ**, and **ActiveMQ**, implementing event-driven architectures for real-time communication and data streaming.
- Proficient in working with both **SQL databases** such as **Oracle DB**, **MySQL**, and **PostgreSQL**, and **NoSQL databases** like **MongoDB**, efficiently designing schemas, writing complex queries, and optimizing database performance.
- Adept at deploying and managing cloud infrastructure on **AWS**, leveraging services like **EC2**, **S3**, **RDS**, **ALB**, and **CloudWatch** to ensure high availability, scalability, and efficient resource utilization.
- Experienced in setting up **CI/CD pipelines** using **Jenkins** and **GitLab**, automating build, testing, and deployment processes for faster delivery and improved reliability.
- Strong knowledge of **version control** using **GitHub**, collaborating on code reviews, branching strategies, and maintaining clean, trackable codebases.
- Expertise in writing **unit tests** using **JUnit** and **Mockito**, achieving high code coverage and ensuring application reliability, along with robust logging practices using **Log4j** and **Splunk**.
- Skilled in **Agile development methodologies**, actively participating in sprint planning, stand-ups, and retrospectives to ensure timely and efficient delivery of projects.
- Advocate of **Test-Driven Development (TDD)**, ensuring thorough testing during development, reducing bugs, and maintaining high-quality code standards.
- Excellent problem-solving and debugging skills, with a proven track record of resolving production issues and optimizing application performance under tight deadlines.
- Strong teamwork and communication skills, thriving in collaborative environments and mentoring junior developers to achieve project goals.

SKILLS

- **Programming Languages:** Java, JavaScript, TypeScript, SQL, Python
- **Frontend Development:** React, Redux, Material-UI, Bootstrap, HTML5, CSS3, JavaScript
- **Backend Development:** Java Spring Boot, Microservices, Hibernate, JPA
- **Messaging Queues:** Apache Kafka, RabbitMQ, ActiveMQ
- **Database Management:** PostgreSQL, MySQL, Oracle DB, MongoDB
- **Cloud Platforms:** Google Cloud Platform (GCP), AWS, Azure
- **DevOps and CI/CD:** Jenkins, GitLab, Docker, Kubernetes
- **Version Control:** Git, GitHub
- **Testing Frameworks**: JUnit, Mockito, Selenium, Cucumber
- **Logging and Monitoring**: Log4j, Splunk
- **Web Services:** RESTful APIs, API Design and Development
- **Agile Methodologies:** Sprint planning, Daily stand-ups, Retrospectives
- **Development Practices:** Test-Driven Development (TDD), Continuous Integration and Delivery
- **Performance Optimization:** Lazy loading, Code-splitting, Query optimization
- **Soft Skills:** Team Collaboration, Technical Analysis, Problem-Solving

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EXPERIENCE

Java Full Stack Developer | Blue cross blue shield association   July 2023 - present
Project Name: VitalMetrics
Description: VitalMetrics is an internal healthcare data analytics platform designed to provide actionable insights into member health trends, claims processing, and care coordination. It enables insurance providers to monitor key performance indicators (KPIs) and compliance metrics effectively.

Responsibilities-
- Built responsive web interfaces using **React** and **Material-UI**, incorporating reusable components to streamline development and maintain consistency across the application.
- Designed and implemented **Redux** for state management, ensuring predictable data flow and efficient handling of application state.
- Optimized front-end performance using techniques like **lazy loading, code-splitting**, and **React.memo**, improving load times and reducing memory usage.
- Developed dynamic forms and interactive dashboards using **React Hooks**, enabling real-time updates and user-friendly navigation.
- Enhanced UI responsiveness by implementing **CSS3 Flexbox** and **Grid layouts**, adhering to accessibility standards (WCAG).
- Implemented **React Query** to optimize data fetching and caching for improved front-end efficiency and reduced server load.
- Developed and deployed RESTful APIs using **Java Spring Boot**, handling high-traffic scenarios with optimized performance.
- Implemented **microservices architecture**, ensuring modularity, scalability, and easy maintenance of backend systems.
- Used **Hibernate ORM** for efficient data persistence and management of relational databases, minimizing boilerplate SQL code.

- Leveraged **Spring Security** to implement authentication and authorization, ensuring secure access to application resources.
- Migrated backend components to **Java 17**, utilizing features like **sealed classes**, **text blocks**, and improved **pattern matching** for cleaner, more efficient code.
- Integrated **Spring WebFlux** for reactive programming to support non-blocking operations, improving performance in high-concurrency environments.
- Integrated **Apache Kafka** for real-time data streaming and asynchronous event processing, supporting a highly distributed architecture.
- Designed and optimized database schemas in **PostgreSQL**, creating stored procedures and indexes to enhance query performance.
- Deployed applications on **AWS** using **Elastic Beanstalk** and **EC2** instances for high availability and scalability, along with **S3** for static asset storage.
- Automated build, testing, and deployment pipelines with **Jenkins** and managed version control using **GitHub**, enabling seamless collaboration across teams.
- Wrote comprehensive unit tests using **JUnit** and **Mockito**, achieved over 85% code coverage, and actively participated in Agile ceremonies like sprint planning, stand-ups, and retrospectives to ensure timely delivery.

Java Developer | General Motors   **Aug 2021 - June 2023**
Project Name: DriveOps
Description: DriveOps is a vehicle operation management system that centralizes fleet tracking, maintenance scheduling, and operational analytics. The platform enables managers to track key metrics and optimize performance for large-scale vehicle fleet

Responsibilities-
- Built dynamic and interactive web applications using **Angular 11**, implementing modular components and lazy loading for efficient navigation and performance.
- Developed reusable **Angular services** for REST API integration, ensuring clean and maintainable code.
- Designed responsive user interfaces using **Bootstrap** and **CSS3**, ensuring consistent cross-browser compatibility and adhering to WCAG accessibility standards.
- Utilized **RxJS** for handling asynchronous data streams, enabling real-time updates and smooth user interactions.
- Implemented **state management** in Angular applications using **NgRx**, ensuring efficient data flow and predictable application behavior across components.
- Developed RESTful APIs and microservices using **Java Spring Boot**, enabling secure and scalable backend services.
- Integrated **Spring Security** for authentication and authorization, ensuring secure access to critical endpoints.
- Implemented **Spring Batch** to handle large-scale batch processing for tasks like ETL operations and data transformation.
- Integrated **RabbitMQ** for asynchronous message processing, improving inter-service communication and decoupling systems.
- Designed and optimized database schemas in **Oracle DB**, implementing stored procedures and triggers to automate key business processes.
- Worked with **MongoDB** for NoSQL requirements, efficiently managing unstructured data and optimizing query performance.
- Deployed applications on **AWS**, utilizing **EC2**, **S3**, and **RDS** for hosting, storage, and database management, ensuring high availability and scalability.

- Automated build and deployment pipelines using **Jenkins** and managed version control with **GitHub**, ensuring streamlined collaboration and faster delivery. Wrote robust unit tests using **JUnit** and logging solutions with **Log4j**, maintaining over 85% code coverage.

Java Developer | Legacy Health   **Jan 2020 - July 2021**
Project Name: CareSphere
Description: CareSphere is a hospital management system that facilitates patient registration, appointment scheduling, and medical record tracking. It ensures seamless communication between administrative staff, healthcare providers, and patients.

Responsibilities-
- Built dynamic and interactive web applications using **Angular 9**, creating reusable components and optimizing performance with lazy loading.
- Developed advanced forms with Angular **Reactive Forms** module for dynamic validations and error handling.
- Integrated REST APIs into the frontend using **Angular HTTPClient**, enabling seamless data communication.
- Implemented real-time updates using **RxJS Observables** for features like live notifications and status updates.
- Created custom animations using **CSS3 transitions** and **Angular Animations Module** to enhance user experience.
- Developed microservices using **Spring Boot**, leveraging **Spring WebFlux** for non-blocking, reactive programming.
- Implemented **Spring Security OAuth2** for secure third-party integrations and access control mechanisms.
- Utilized **Spring Data JPA** with **PostgreSQL**, simplifying complex database interactions with custom query support.
- Built scheduled jobs using **Spring Scheduler** to automate recurring tasks like report generation and cleanup activities.
- Utilized **Apache Kafka** for event-driven communication, enabling real-time data streaming across microservices.
- Designed relational database schemas in **MySQL**, ensuring efficient data storage and retrieval with stored procedures and indexing.
- Deployed applications on **AWS**, leveraging **EC2** and **RDS** for scalable hosting and database management.
- Automated CI/CD pipelines using **GitLab**, ensuring seamless build and deployment workflows with integrated unit testing using **JUnit**.

Software Engineer | Greater Texas Credit Union   **Aug 2018 – Nov 2019**
Project Name: FinVision
Description: FinVision is a financial reporting and analytics system built to track loan applications, payments, and compliance metrics. It enables credit union executives to assess financial health and streamline operations effectively.

Responsibilities-
- Built and enhanced web applications using **React**, implementing dynamic and reusable components for user-friendly interfaces.
- Utilized **React Context API** to manage state across complex component hierarchies, improving code maintainability.

- Designed responsive layouts with **CSS3** and **Styled Components**, ensuring compatibility across multiple screen resolutions.
- Developed interactive dashboards with real-time data visualization using libraries like **Chart.js** and **D3.js**.
- Developed microservices using **Java Spring Boot**, integrating **Spring Cloud Config** for centralized configuration management.
- Implemented **Spring Security** with JWT-based authentication for enhanced API security and session management.
- Designed batch processing pipelines with **Spring Batch**, handling bulk data operations like data migration and report generation.
- Leveraged **Spring Retry** for fault-tolerant operations, ensuring robustness in remote API calls and database transactions.
- Used **RabbitMQ** for message queuing and asynchronous event processing between loosely coupled services.
- Managed transactional data using **Oracle DB**, implementing indexing and query optimization for high-volume workloads.
- Deployed applications on **AWS** using **EC2 instances** for scalable infrastructure, **ALB (Application Load Balancer)** for traffic distribution, and **CloudWatch** for monitoring and alerts.

Associate Software Intern | Ecom Express Limited   June 2016 – July 2018
Project Name: TestSphere
Description: TestSphere is a QA automation framework designed to streamline the testing lifecycle by automating unit and functional tests for backend services and frontend applications.

Responsibilities-
- Assisted in developing **AngularJS** components for dynamic forms and user interactions under senior developer guidance.
- Collaborated on building RESTful APIs using **Spring Boot**, focusing on simple CRUD operations for backend services.
- Wrote **unit test cases** using **JUnit** and **Mockito**, ensuring backend functionality met project requirements.
- Created **functional test cases** to validate end-to-end workflows and integration between frontend and backend modules.
- Conducted manual testing of features, logging bugs, and assisting the QA team in resolving issues.
- I participated in **peer code reviews** to improve code quality and learn best practices from senior team members.
- Documented test cases and results, ensuring proper tracking and reporting of testing progress.
- Attended Agile meetings, including daily stand-ups and sprint retrospectives, to understand development workflows and contribute feedback.

EDUCATION
Central Michigan University
Masters in computer science | 12/2024 | 3.7/4.0