Yashoda Pratik Varma

Full Stack Developer

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PROFESSIONAL SUMMARY:

- Java Full Stack Developer with 5+ years of experience in designing, developing, and deploying robust, scalable, and secure enterprise-level applications.
- Proven ability to optimize system performance, enhance user experience, and streamline development and deployment workflows. Adept at leveraging cutting-edge technologies to deliver innovative solutions in fast-paced environments.
- Expertise in Java, Spring Boot, Hibernate ORM, and gRPC for building high-performance microservices and APIs.
- Proficient in React, Angular, TypeScript, Redux Toolkit, and Tailwind CSS for creating responsive and WCAG-compliant user interfaces.
- Skilled in deploying and orchestrating containerized applications on Azure Kubernetes Service (AKS), Google Cloud Platform (GCP) Kubernetes, and AWS (EC2, RDS) using Docker, Jenkins, and GitLab CI/CD.
- Experienced with Kafka for real-time data streaming and event-driven architectures, and integrating FIX and SWIFT messaging standards. Proficient in PostgreSQL, Oracle, and PL/SQL for efficient data storage, retrieval, and optimization.
- Hands-on experience with Prometheus, Grafana, and ELK Stack (Elasticsearch, Logstash, Kibana) for real-time application monitoring and incident response.
- Implemented TLS, AES-256 encryption, Spring Security, HIPAA, PCI DSS, and SOX compliant security protocols.
- Developed comprehensive unit and integration test suites using JUnit, Mockito, and RestAssured to ensure high code quality. Utilized Apache Spark and QlikView for analyzing high-volume data sets and generating actionable insights.
- Integrated healthcare interoperability standards including FHIR and HL7 v2/v3 for seamless patient record synchronization.

TECHNICAL SKILLS:

Programming Languages:	Java 21, JavaScript (ES2023), TypeScript, SQL, PL/SQL, Python (for scripting and automation)
Frameworks & Libraries:	Spring Boot 3.x, Hibernate ORM, Spring Security, JUnit 5, Mockito, RestAssured, Apache Spark, gRPC, Redux Toolkit
Frontend Technologies:	React 19, Angular, Tailwind CSS, HTML, CSS
API & Protocols:	RESTful APIs, GraphQL APIs, FIX Protocol, SWIFT Protocol, FHIR, HL7 v2/v3, gRPC, TLS 1.3, AES-256 encryption
Cloud Platforms:	Azure, Azure Kubernetes Service (AKS), Google Cloud Platform (GCP), AWS (EC2, RDS)
Containerization & Orchestration:	Docker, Kubernetes (AKS, GCP Kubernetes)
CI/CD Tools:	Jenkins, GitLab CI/CD
Databases:	PostgreSQL, Oracle
Version Control:	Git, GitHub, GitLab
Monitoring & Logging:	Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)
Data Visualization:	QlikView
Data Streaming & Messaging:	Apache Kafka
Security & Compliance:	PCI DSS, SOX Compliance, HIPAA Compliance
Data Interoperability:	FHIR, HL7, SWIFT, FIX Protocol
Testing Frameworks:	JUnit 5, Mockito, RestAssured
Big Data & Analytics:	Apache Spark
DevOps Practices:	CI/CD Pipelines, Rolling Updates, Blue-Green Deployments
Methodologies:	Microservices Architecture, Event-Driven Architecture, Responsive Design, Accessibility (WCAG Compliance)

PROFESSIONAL SUMMARY:

Northern Trust – MI | November 2024 - Present

Full Stack Developer

- Reduced trade reconciliation time by 38% by designing and implementing Kafka-based real-time streaming pipelines for FIX protocol message ingestion and processing, accelerating financial transaction settlements.
- Achieved 99% application uptime by deploying containerized microservices on Azure Kubernetes Service (AKS) with Prometheus and Grafana for real-time observability and proactive incident response.
- Designed and developed RESTful and GraphQL microservices leveraging Java 21, Spring Boot 3.x, and Hibernate ORM, supporting transaction workflows, client portfolio management, and audit trail generation.
- Integrated FIX and SWIFT messaging standards with custom adapters to facilitate secure, standardized, and real-time financial transactions across global payment and trading systems.

- Engineered responsive, WCAG-compliant UI using React 19, Tailwind CSS, and Redux Toolkit, enhancing user experience on client onboarding, account summary, and investment dashboards.
- Optimized high-frequency trading systems by implementing gRPC-based inter-service communication, reducing internal API call latency by up to 42% during peak load sessions.
- Dockerized full-stack applications and orchestrated deployments with Azure AKS, including rolling updates and blue-green deployments for risk-free production releases.
- Architected TLS 1.3 encryption pipelines for both API endpoints and database connections (PostgreSQL/Oracle), complying with PCI DSS and SOX regulatory standards.

Cardinal Health – MI | May 2023 - October 2024
Java Full Stack Developer

- Developed scalable RESTful APIs using Spring Boot & Java, enabling real-time, secure data exchange between Electronic Health Record (EHR) system, enhancing interoperability & reducing data latency by 30%.
- Engineered dynamic, mobile-responsive front-end applications with React.js, TypeScript, and Tailwind CSS, delivering user-centric provider dashboards that improved clinician workflow efficiency and reduced navigation time by 25%.
- Integrated healthcare interoperability standards FHIR (Fast Healthcare Interoperability Resources) and HL7 v2/v3 to synchronize patient records seamlessly across Epic and Cerner platforms, ensuring compliance with industry regulations and improving cross-system data accuracy.
- Containerized microservices using Docker & orchestrated deployments on Google Cloud Platform (GCP) Kubernetes clusters, achieving 99% uptime & streamlined application scalability for fluctuating healthcare workloads.
- Maintained robust CI/CD pipelines leveraging Jenkins and GitLab CI/CD, automating build, test & deployment cycles to accelerate release frequency by 50% while maintaining zero downtime deployments.
- Implemented HIPAA-compliant security protocols, including AES-256 encryption for data at rest and TLS 1.3 for data in transit, safeguarding patient information and passing all internal and external security audits.
- Developed comprehensive unit and integration test suites using JUnit 5, Mockito, and RestAssured, attaining 95% code coverage and significantly reducing post-release defects and rollback incidents.
- Analyzed high-volume healthcare claims data sets using Apache Spark, creating actionable insights and interactive reports via QlikView dashboards that supported strategic decision-making in claims adjudication.
- Optimized claims processing workflows by designing Kafka-based event-driven microservices architecture, reducing end-to-end processing time by 40% and improving system throughput under peak loads.
- Enhanced patient data retrieval performance by 35% through advanced PL/SQL stored procedures, query optimization & strategic indexing in Oracle databases, resulting in faster access to critical clinical information

HCLTech – India | May 2016 - July 2019
Full Stack Developer

- Designed and implemented a microservices architecture that enhanced system scalability by 30%, enabling seamless integration of new features and services in a high-traffic retail environment.
- Created and optimized RESTful APIs that improved product retrieval response times by 25%, facilitating a smoother user experience and faster transaction processing in the e-commerce platform.
- Angular framework to develop dynamic UI components, leading to a 40% increase in user engagement metrics, thereby driving higher conversion rates and customer satisfaction.
- Streamlined deployment processes by automating CI/CD pipelines using Jenkins, achieving a 50% reduction in deployment time and ensuring rapid delivery of features and fixes to production.
- Deployed Spring Security to establish comprehensive user authentication & authorization mechanisms, safeguarding sensitive customer data and ensuring compliance with industry standards.
- Leveraged Hibernate ORM for efficient database interactions, optimizing SQL queries to enhance performance and reduce latency in data retrieval operations.
- Executed unit testing using JUnit and Mockito to validate code functionality and maintain high code quality, resulting in a significant reduction in post-deployment defects.
- Deployed and managed applications on AWS, utilizing EC2 for scalable hosting solutions and RDS for robust database management, ensuring high availability and reliability of e-commerce services.
- Employed Docker for containerization, which facilitated consistent development and testing environments, reducing discrepancies between development and production setups.
- Established logging and monitoring frameworks using the ELK Stack (Elasticsearch, Logstash, Kibana) to gain real-time insights into application performance, enabling proactive issue resolution and performance tuning.

EDUCATION:

Master of Computer Science - Western Michigan University, Kalamazoo, MI, USA
Bachelor of Computer Applications - MIT School of Management