RAHUL GANGADASU

Senior Full Stack Java Developer
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PROFESSIONAL SUMMARY

- Senior Full Stack Java Developer with 7+ years of experience across the full Software Development Life Cycle (SDLC), designing and delivering scalable, cloud-native, and microservices-driven enterprise applications.
- Strong expertise in building cloud-native backend systems using **Java 17**, **Spring Boot**, **Spring MVC**, and **Spring Security**, implementing secure, high-performance microservices architectures for enterprise environments.
- Hands-on experience developing and modernizing **Microservices-based architectures**, integrating **Apache Kafka** for event-driven communication and leveraging **Docker** and **Kubernetes (GKE)** for container orchestration and scalable deployments.
- Proven experience working in hybrid cloud environments across **AWS and GCP**, deploying applications using services such as EC2, S3, RDS, ECS, and GKE while implementing secure IAM configurations and high-availability strategies.
- Experience integrating **AI-enabled solutions** into enterprise platforms, including LLM-powered assistants and intelligent workflow agents, enabling automation, contextual knowledge retrieval, and operational efficiency improvements.
- Proficient in developing secure and optimized **RESTful APIs** using Spring Boot and Node.js, ensuring seamless integration between frontend applications, backend services, and distributed systems.
- Strong frontend development expertise using **React.js**, **Redux**, **React Native**, and **Angular**, building responsive, component-based user interfaces and single-page applications supported by HTML5, CSS3, JavaScript, and Bootstrap.
- Extensive experience with relational and NoSQL databases including **Oracle**, **SQL Server**, **MySQL**, and **MongoDB**, authoring complex SQL and PL/SQL logic to support high-volume transactional systems.
- Solid background in enterprise financial systems, including **Oracle E-Business Suite (R12)**, contributing to financial transformations and integration of legacy systems with modern microservices platforms.
- Committed to engineering excellence through **Test-Driven Development (TDD)**, CI/CD automation using **Jenkins**, and Agile methodologies, ensuring reliable, secure, and production-ready software delivery.

EDUCATION

Rivier University | Master of Science in Computer Science
RVR & JC College of Engineering | Bachelor of Technology in Computer Science and Engineering

TECHNICAL SKILLS

- **Programming Languages:** Java 17, Java (Core, Advanced, J2EE), JavaScript (ES6+), TypeScript, SQL, PL/SQL
- **Backend Technologies & Frameworks:** Spring Boot, Spring MVC, Spring Security, Spring Core (IoC), Spring AOP, Hibernate ORM, EJB, RESTful Web Services, Apache Kafka, Node.js
- **Frontend & Mobile Technologies:** React.js, Redux, React Native, Angular, HTML5, CSS3, Bootstrap, jQuery, AJAX, JSP
- **Cloud & Containerization:** Amazon Web Services (AWS – EC2, S3, RDS, ECS, Elastic Beanstalk, IAM), Google Cloud Platform (GCP), Google Kubernetes Engine (GKE), Docker, Kubernetes
- **DevOps, CI/CD & Monitoring:** Jenkins, Prometheus, Grafana, Dynatrace, Apache Tomcat
- **Databases:** Oracle Database, MySQL, Microsoft SQL Server, MongoDB
- **Enterprise Systems:** Oracle E-Business Suite (R12)
- **Testing & Development Practices:** JUnit, Spock, Test-Driven Development (TDD), Microservices Architecture, Event-Driven Architecture, Agile (Scrum), SDLC
- **Tools & Build Automation:** Git, Maven, IntelliJ IDEA, Eclipse, Visual Studio Code

PROFESSIONAL EXPERIENCE

Verizon: Nov 2024 – Current (Location: Irving, TX)
Senior Full Stack Java Developer

- Engineered cloud-native microservices using **Java 17** and **Spring Boot**, developing independently deployable services within a distributed **Microservices architecture** to support high-availability, scalability, and fault-tolerant enterprise applications.

- Designed and integrated an **AI-powered enterprise assistant** leveraging **LLM APIs** to automate document summarization, intelligent ticket classification, and contextual knowledge retrieval across internal business systems.
- Implemented intelligent **AI agents** capable of executing multi-step workflows, including automated ticket routing and decision-support recommendations, integrating orchestration logic with backend validation services to ensure reliable and auditable outputs.
- Implemented event-driven communication using **Apache Kafka**, enabling asynchronous processing between microservices and AI components, improving system resilience, and reducing tight coupling across distributed services.
- Developed **Kafka producers and consumers**, configuring topic partitioning and message serialization strategies to handle high-throughput event streams while ensuring reliable message delivery.
- Deployed containerized applications using **Docker** and managed orchestration on **Google Kubernetes Engine (GKE)**, configuring rolling deployments, horizontal auto-scaling, and readiness/liveness probes to maintain production stability.
- Supported hybrid cloud operations across **GCP** and **AWS**, managing secure networking, environment configurations, and cloud resource provisioning to ensure high availability and operational resilience.
- Developed secure, high-performance **RESTful APIs** using **Spring Boot** and **Node.js**, enabling seamless communication between AI services, frontend dashboards, and backend enterprise systems.
- Secured enterprise applications using **Spring Security**, implementing **OAuth2 and JWT-based authentication**, role-based access control, and fine-grained authorization to protect AI-integrated endpoints and microservices.
- Strengthened enterprise **security and regulatory compliance** by enforcing encryption for data in transit and at rest, configuring secure **IAM policies** across GCP and AWS, and aligning deployments with internal governance and compliance frameworks.
- Modernized user interfaces using **React.js** and **Angular**, delivering responsive, component-based dashboards that visualized AI-driven insights, event metrics, and real-time analytics.
- Integrated **MongoDB** and distributed caching strategies to store AI-generated metadata, conversational context, and high-volume transactional data with optimized retrieval performance.
- Implemented comprehensive monitoring and observability using **Prometheus**, **Grafana**, and centralized logging stacks, enabling real-time tracking of API latency, Kafka throughput, AI agent execution metrics, and system resource utilization.
- Leveraged application performance monitoring tools to trace distributed transactions across microservices, proactively identifying bottlenecks and improving memory management and response times in production environments.
- Administered and optimized **Jenkins CI/CD pipelines**, collaborating with DevOps engineers to automate build, test, containerization, and deploy workflows for microservices and AI-enabled services across hybrid cloud environments.
- Practiced strict **Test-Driven Development (TDD)** using JUnit and modern testing frameworks, ensuring high unit and integration test coverage for microservices, Kafka event flows, and AI orchestration layers.
- Participated actively in Agile ceremonies, backlog refinement, and pair programming sessions, contributing to continuous delivery of scalable, secure, and AI-enhanced enterprise features.

Environment: Java 17, Spring Boot, Spring MVC, Spring Security, RESTful Web Services, Microservices Architecture, Apache Kafka, Node.js, React.js, Angular, HTML5, CSS3, Bootstrap, jQuery, MongoDB, Docker, Kubernetes (GKE), AWS, Google Cloud Platform (GCP), Jenkins, Prometheus, Grafana, OAuth2, JWT, Maven, Git, Agile (Scrum)

Blue Yonder: May 2022 – Oct 2024 (Location: Coppell, TX)
Full Stack Java Developer

- Developed a high-performance internal **React Native** tool for image annotation, collaborating with cross-functional teams to streamline the data labeling pipeline and support validation workflows for more than 10 machine learning models across staging and production environments.
- Implemented scalable frontend architecture using **React Hooks** and **Redux** for centralized state management, improving rendering efficiency and reducing application latency by 30% while ensuring consistent user experience across mobile and web platforms.
- Built backend services using **Java 17** and **Spring Boot**, contributing to the development of a scalable e-commerce platform capable of supporting over 10,000 concurrent users while improving system throughput and optimizing request processing performance.
- Designed and exposed multiple **RESTful APIs** using **Spring Boot**, implementing validation, exception handling, and secure authentication mechanisms to enable seamless communication between frontend applications and backend microservices.
- Containerized applications using **Docker** and worked with **DevOps engineers** to deploy services on **AWS**, leveraging **EC2**, **S3**, and **RDS** while configuring environment variables, networking rules, and scaling policies to ensure high availability and reliability.
- Worked alongside DevOps teams to build and maintain **CI/CD pipelines** using **Jenkins**, automating build, test, and deployment workflows and reducing manual intervention while accelerating release cycles within an Agile development model.

- Participated in **Kubernetes** orchestration efforts, assisting in deployment configuration, pod scaling, and service management to ensure containerized microservices operated efficiently across development and production clusters.
- Developed and optimized complex **PL/SQL** stored procedures, triggers, and functions on **Oracle** and **SQL Server** databases to support transactional workflows and reporting modules, improving query execution time and data processing efficiency.
- Integrated **Dynatrace** for real-time application monitoring and distributed tracing, collaborating with DevOps teams to analyze performance metrics, identify bottlenecks, and implement memory and resource optimizations in production environments.
- Strengthened software quality practices by implementing **Test-Driven Development (TDD)** using **JUnit** and **Spock**, participating in pair programming sessions, and ensuring high unit test coverage for backend services deployed through CI/CD pipelines.

Environment: Java 17, Spring Boot, RESTful Web Services, React Native, React Hooks, Redux, Docker, Kubernetes, AWS (EC2, S3, RDS), Jenkins, Oracle, SQL Server, PL/SQL, Dynatrace, JUnit, Spock, Maven, Git, Agile (Scrum)

Tata Consultancy Services: Jan 2020 - Dec 2021 (Location: Bhubaneshwar, Odisha)
Java Developer

- Maintained legacy monolithic enterprise applications built using **Spring MVC**, **EJB**, and **Hibernate**, supporting core financial and operational modules while troubleshooting production issues and optimizing performance within a tightly coupled architecture.
- Contributed to the gradual refactoring of monolithic components into **Spring Boot-based microservices**, developing independently deployable services and exposing business functionality through **RESTful APIs** to improve modularity and scalability.
- Containerized microservices using **Docker** and deployed applications to **AWS** environments including **Elastic Beanstalk** and **ECS**, configuring load balancing and auto-scaling policies to improve availability and resource utilization.
- Implemented asynchronous communication between services using **Apache Kafka**, enabling event-driven processing and reducing direct dependencies that previously existed within the monolithic system.
- Developed secure backend integrations on **AWS**, configuring **IAM roles**, access policies, and secure service-to-service communication to ensure controlled access and compliance with organizational security standards.
- Designed and optimized persistence layers using **Hibernate ORM** and advanced **Oracle SQL/PL/SQL**, writing stored procedures, functions, triggers, and packages to encapsulate business logic and support high-volume transactional processing.
- Contributed to a financial transformation migrating from Cash to Accrual accounting models by restructuring the **Chart of Accounts (COA)** and using complex **PL/SQL packages** to validate and migrate legacy data into the **General Ledger (GL)** system.
- Supported customization and configuration of **Oracle E-Business Suite (R12 Financials)** including Accounts Payable, Accounts Receivable, and General Ledger, while integrating selected financial functionalities with newly developed microservices.
- Deployed legacy Java applications on **Apache Tomcat** and transitioned newer services to embedded servers within **Spring Boot**, simplifying deployment workflows and reducing operational overhead.

Environment: Java, Spring Boot, Spring MVC, EJB, Hibernate ORM, RESTful Web Services, Apache Kafka, Docker, AWS (Elastic Beanstalk, ECS, IAM), Oracle Database, SQL, PL/SQL, Oracle E-Business Suite (R12), Apache Tomcat, Maven, Git

Hexaware Technologies: Jun 2019 - Dec 2019 (Location: Chennai, Tamil Nadu)
Junior Software Engineer

- Contributed to the development of **microservices-based applications** using **Java** and **Spring Boot**, implementing REST controllers, service-layer logic, and repository components within a layered architecture. Assisted senior engineers in building modular, maintainable backend services aligned with enterprise design standards.
- Implemented **RESTful APIs** using **Spring MVC**, enabling communication between internal services and external systems. Handled request validation, exception handling, and **JSON** serialization to ensure reliable data exchange and consistent API responses.
- Developed backend components using **Spring Core (IoC)** for dependency injection and **Spring AOP** for cross-cutting concerns such as logging and transaction management, improving code modularity and separation of concerns across application layers.
- Integrated **Apache Kafka** to support asynchronous messaging between microservices, assisting in configuring producers and consumers to enable event-driven communication and improve system scalability while reducing service-to-service coupling.
- Implemented database operations using **Spring JDBC** with **MySQL**, writing optimized SQL queries, handling connection management, and ensuring efficient CRUD functionality maintaining data integrity and following normalized schema structures.
- Built frontend modules using **Angular** and **TypeScript**, developing reusable components, implementing routing mechanisms, and consuming backend **REST APIs** to create a responsive and dynamic **Single Page Application (SPA)**.
- Designed responsive user interfaces using **HTML5**, **CSS3**, and **Bootstrap**, ensuring cross-browser compatibility and mobile responsiveness while collaborating with UI/UX designers to maintain consistent styling and accessibility standards.

- Utilized **JavaScript** and **AJAX** to enable asynchronous data retrieval and partial page updates, enhancing application performance and improving user experience by reducing full-page reloads during client-server interactions.
- Worked with **Maven** for dependency management and build automation, and used **Git** for version control, participating in code reviews and maintaining structured branching strategies within an agile development environment.

Environment: Java, Spring Boot, Spring MVC, Spring Core (IoC), Spring AOP, Spring JDBC, RESTful Web Services, Apache Kafka, MySQL, Angular, TypeScript, HTML5, CSS3, Bootstrap, JavaScript, AJAX, JSON, Maven, Git