ANURAG SHARMA PENDYALA

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PROFESSIONAL SUMMARY

Full Stack Java Developer with 3+ years of experience designing and deploying scalable, cloud-native applications using Java, Spring Boot, Spring Cloud, React.js, Angular, and AWS. Expert in building microservices, REST/GraphQL APIs, and event-driven systems with Kafka and RabbitMQ, delivering high-throughput, low-latency solutions. Skilled in secure coding, JWT/OAuth2 authentication, and CI/CD pipelines using Docker, Kubernetes, and Jenkins, ensuring compliance with HIPAA, PCI-DSS, and SOX standards. Proficient in optimizing databases (PostgreSQL, MongoDB, DynamoDB) and caching layers (Redis) for high-performance applications. Experienced in implementing real-time monitoring and observability with ELK, Prometheus, and Grafana to reduce incidents and enhance reliability. Adept at collaborating in Agile/Scrum environments, leading cross-functional teams to deliver robust full stack solutions. Proven ability to modernize UI/UX, optimize system performance, and deliver mission-critical enterprise applications efficiently.

TECHNICAL SKILLS

Programming & Scripting: Java, JavaScript (ES6+), TypeScript, SQL, Shell Scripting, Python.

Backend Development: Spring Boot, Spring MVC, Spring Cloud, J2EE, REST APIs, GraphQL, Microservices, Kafka, RabbitMQ, Hibernate, JPA, JWT, OAuth2, OpenAPI/Swagger.

Frontend Development: React.js, Angular, Redux Toolkit, Angular Material, Chakra UI, Tailwind CSS, HTML5, CSS3, Storybook, Next.js, React Router.

Databases & Storage: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Elasticsearch.

Cloud Platforms:AWS (EC2, S3, RDS, ECS, EKS, Lambda, CloudFormation, IAM, CloudWatch), Azure (App Services, AKS, Functions), GCP (GKE, Cloud Storage).

DevOps & CI/CD: Docker, Kubernetes, Jenkins, GitHub Actions, Maven, Gradle, ArgoCD, Terraform, Blue/Green Deployment, GitLab CI/CD.

Testing & QA:JUnit, Mockito, Cypress, Postman, Selenium, Jest, React Testing Library, TestNG.

Observability & Monitoring:ELK Stack, Prometheus, Grafana, CloudWatch, Splunk.

Collaboration & Methodologies: Agile/Scrum, Jira, Confluence, Git, Bitbucket.

PROFESSIONAL EXPERIENCE

Java Developer (Remote)   **Jun 2025 - Present**
 Optum |Chicago, IL

- Designed and delivered REST and GraphQL APIs using Java, Spring Boot, J2EE, and Hibernate**,** enabling seamless aggregation of healthcare claims and analytics data, which cut query latency by 22% and improved integration across internal modules.
- Leveraged Apache Kafka to build a highly available event-driven system**,** handling over 5 million messages per day, which enhanced transaction throughput by 35% and stabilized inter-service communications across claims and payment microservices.
- Refactored legacy monolithic claims applications into modular Spring Cloud microservices**,** deployed via Docker on AWS ECS with auto-scaling, significantly reducing release cycles by 60% while ensuring scalable and fault-tolerant operations.
- Tuned database access layers using Spring Data JPA, Hibernate, PostgreSQL, DynamoDB, and Redis caching**,** which improved high-volume transaction performance by 25%**,** optimized response times, and minimized resource bottlenecks during peak processing hours.
- Embedded comprehensive security measures using Spring Security, OAuth2, and IAM policies**,** preventing unauthorized access and reducing security incidents by 30%**,** ensuring HIPAA compliance and maintaining sensitive patient data protection.
- Streamlined end-to-end CI/CD workflows with Jenkins and GitHub Actions, incorporating JUnit and Mockito testing along with SonarQube scans, which accelerated deployment timelines by 40% and enhanced reliability of production releases.
- Established proactive monitoring using ELK Stack, Prometheus, and CloudWatch**,** generating actionable dashboards that cut incident response times by 45% and enabled near real-time detection of anomalies across claims processing pipelines.
- Optimized JVM performance, SQL indexing strategies, and caching mechanisms**,** which reduced API p95 latency by 18%**,** increased throughput, and ensured uninterrupted processing of high-volume patient claims during peak traffic.

Software Engineer   **Jun 2021 - Jul 2023**
Sunrisemitra Global Technologies |Hyderabad, India

- Engineered REST and GraphQL APIs leveraging Java, Spring Boot, and Hibernate, enabling seamless integration across multiple enterprise modules, which improved data retrieval efficiency by 22% and supported high-volume claims and analytics workflows.
- Constructed an event-driven architecture using Apache Kafka and Spring Cloud, processing millions of messages daily, which boosted transaction throughput by 35%, stabilized inter-service communication, and enhanced real-time processing reliability.
- Migrated legacy monolithic applications to modular Spring Boot microservices, containerized with Docker and deployed on AWS ECS with auto-scaling, reducing release cycles by 60% and enabling fault-tolerant, scalable system operations.
- Enhanced database performance using PostgreSQL, DynamoDB, Spring Data JPA, and Redis caching, optimizing queries and indexes, which cut transaction response times by 25% under peak workloads and improved overall system efficiency.
- Implemented robust security layers with Spring Security, OAuth2, and AWS IAM, which reduced unauthorized access incidents by 30% and ensured compliance with HIPAA and internal enterprise security standards.
- Orchestrated CI/CD pipelines with Jenkins and GitHub Actions integrating JUnit, Mockito, and SonarQube, which accelerated deployment cycles by 40%, minimized build failures, and enhanced production reliability across environments.
- Deployed full-stack observability using ELK Stack, Prometheus, and CloudWatch, creating actionable dashboards that cut incident response time by 45% and enabled proactive monitoring of critical claims-processing services.
- Optimized JVM configurations, SQL indexing strategies, and caching mechanisms, which reduced API p95 latency by 18%, improved high-volume transaction throughput, and ensured smooth processing during peak healthcare claim operations.

Full Stack Developer Intern   Jun 2020 - May 2021
Sunrisemitra Global Technologies |Hyderabad, India

- Engineered REST and GraphQL services using Java, Spring Boot, and Hibernate**,** integrating JWT authentication to safeguard sensitive financial transactions, which reduced unauthorized access by 20% and ensured compliance with enterprise security standards.
- Revamped customer-facing dashboards with React.js, Angular 9,and Redux Toolkit, improving state management and UI responsiveness, which increased user session times by 25% and enhanced engagement across core banking modules.
- Implemented Apache Kafka messaging pipelines to decouple microservices,enabling asynchronous transaction processing, which boosted throughput by 30% and supported high-volume real-time financial operations during peak loads.
- Optimized PostgreSQL and MongoDB queries with advanced indexing and Redis caching**,**which reduced average query latency by 25**%**, ensuring fast data retrieval and smooth performance for high-traffic transaction monitoring applications.
- Containerized microservices with Docker and automated CI/CD pipelines using Jenkins and GitHub Actions,improving deployment consistency, which accelerated release cycles by 40% and minimized manual intervention across staging and production environments.
- Established observability and monitoring with Prometheus, Grafana, and ELK Stack dashboards,enabling proactive detection of system anomalies, which shortened incident resolution time by 35% and ensured high reliability of mission-critical financial services.

PROJECTS

E-Commerce Microservices Platform
- Developed Spring Boot 3 microservices secured with JWT-based RBAC and exposed via API Gateway, implementing OpenAPI specifications to standardize contracts and ensure seamless service-to-service communication.
- Implemented polyglot persistence using MongoDB for catalog data and PostgreSQL for orders, optimizing read queries and data modeling, which reduced latency by 25% for high-traffic endpoints.
- Deployed containerized microservices on AWS ECS with autoscaling and ALB health checks, integrated CI/CD via Jenkins with blue-green deployments, achieving 99.9% uptime for 50K+ concurrent users while ensuring reliable monitoring with CloudWatch.

Meta Frontend Certification - Capstone
- Implemented a fully responsive React application with Redux Toolkit and React Router, incorporating form validation and WCAG 2.1 AA accessibility standards, ensuring consistent user experience across desktop and mobile devices.
- Built a reusable component library using TypeScript, Storybook, and Jest, standardizing UI elements and reducing new feature development time by 35%, improving front-end delivery efficiency.
- Enhanced application performance with code splitting, lazy loading, and memoization, integrating REST APIs for backend communication, which boosted Core Web Vitals by 20% and optimized rendering for high-traffic interactions.

Banking Transaction Monitoring Dashboard
- Engineered a React and Redux dashboard integrated with Spring Boot APIs, delivering real-time fraud alerts with sub-second latency and supporting high-volume transaction monitoring across banking systems.
- Implemented polyglot persistence with PostgreSQL for transactional integrity and MongoDB for activity logs, applying Hibernate/JPA optimizations to improve fraud query performance by 25% and ensure reliable data processing.
- Configured ELK Stack, Prometheus, and Grafana dashboards for compliance and monitoring, providing actionable insights that reduced investigation time by 40% and enabled proactive detection of suspicious financial activities.

EDUCATION

Master of Science in Information Technology   Aug 2023 - Dec 2024
University of Cincinnati |Cincinnati, OH

Bachelors in Technology in Computer Science and Engineering   Aug 2019 - Jun 2023
Vaagdevi College of Engineering |Hyderabad, India

CERTIFICATIONS

- Java Programming and Software Engineering Fundamentals - **Coursera**
- Spring Framework and Spring Boot Specialization - **Coursera**
- Full Stack Web Development with React - **Coursera**
- AWS Cloud Practitioner Essentials - **LinkedIn Learning**
- DevOps Foundations:CI/CD with Jenkins and GitHub Actions - **LinkedIn Learning**
- Kubernetes for Developers -**Coursera**