

Diwakar Reddy Karna

Java Full-Stack Developer

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PROFESSIONAL SUMMARY

Senior Java Full-Stack Developer with 6+ years of experience primarily focused on backend engineering, building scalable microservices and enterprise-grade applications using Java 11/17 and Spring Boot. Strong expertise in RESTful API design, event-driven architectures with Kafka, and secure authentication using OAuth2 and JWT.

Experienced in developing cloud-native systems on AWS and Azure, implementing CI/CD pipelines, optimizing database performance, and improving production reliability in distributed environments. Hands-on experience building responsive frontend applications using React and Angular integrated with Spring Boot APIs.

TECHNICAL SKILLS

- **Languages:** Java (8, 11, 17), Python, JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3
- **Backend & Frameworks:** Spring Boot, Spring MVC, Spring Security (OAuth 2.0, JWT), Spring Cloud (Config Server, Eureka, OpenFeign), Hibernate (JPA), Spring Batch, Microservices Architecture, RESTful APIs, Event-Driven Architecture
- **Frontend:** React (18+) with TypeScript, Angular (14+), Next.js, Redux, Material UI
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, Cognito, API Gateway, DynamoDB, RDS, IAM, CloudFormation, CodePipeline, SQS, SNS, CloudWatch, EKS), Azure, Azure DevOps, Docker, Kubernetes, Terraform, CI/CD (Jenkins, GitHub Actions, GitLab CI), SonarQube
- **Databases & Messaging:** MongoDB, PostgreSQL, MySQL, Oracle, SQL Server, Redis, Apache Kafka, RabbitMQ
- **Build & Version Control:** Maven, Gradle, Git (GitHub, GitLab, Bitbucket), Nexus
- **Testing:** JUnit 4/5, Mockito, REST Assured, TestNG, Selenium, Cucumber (BDD), Postman, Swagger UI, OpenAPI
- **Monitoring & Observability:** ELK Stack (Elasticsearch, Logstash, Kibana), Log4j, Splunk, Dynatrace
- **Methodologies:** Agile/Scrum, SDLC, TDD, BDD

PROFESSIONAL EXPERIENCE

United Airlines — Java Full-Stack Developer | Irving, TX | Jun 2024 – Present

- Engineered high-performance Spring Boot REST APIs for flight scheduling and fare search, optimizing PostgreSQL partitioning and indexing to support 50K+ peak-hour bookings with P95 latency under 50ms, improving system throughput by 40%.
- Strengthened data integrity by introducing validation layers within Kafka event streams, reducing data inconsistencies by 45% and improving overall system reliability.
- Secured distributed microservices using Spring Security (OAuth2/JWT, RBAC) with centralized authentication and role-based access control, maintaining zero unauthorized access incidents.
- Built responsive React dashboards connected to Spring Boot APIs, enabling real-time operational insights and improving cross-functional visibility for flight scheduling workflows.
- Modernized legacy WebSphere services into containerized Spring Boot microservices registered with Eureka, enhancing scalability, deployment flexibility, and horizontal scaling efficiency across distributed environments.
- Deployed serverless APIs using AWS Lambda and API Gateway with Cognito authentication and DynamoDB persistence, reducing infrastructure costs by 20%.
- Automated infrastructure provisioning and CI/CD pipelines using AWS CloudFormation, CodePipeline, and GitLab CI, increasing release frequency and reducing deployment failures through automated validation and rollback mechanisms.
- Configured Spring Boot Actuator monitoring with AWS CloudWatch dashboards and alerts, improving production observability and reducing MTTR by 25%.

Barclays — Java Full-Stack Developer | Bengaluru, India | Jun 2021 – Jul 2023

- Architected and delivered a Java 11-based Spring Boot KYC and onboarding micro-platform, integrating core banking systems through secure REST APIs with OAuth2 and JWT-based authentication.
- Enabled secure and scalable document management by incorporating Azure Blob Storage with SAS token-based access for KYC artifacts.
- Optimized Oracle PL/SQL queries and applied JPA/Hibernate indexing strategies, reducing query latency by 35% and improving transaction throughput across high-volume workflows.
- Integrated Kafka-driven transaction alert pipelines with fraud detection services, increasing detection accuracy by 8% and reducing manual review workload by 25 hours per week.

- Developed a role-based Angular analytics dashboard interfacing with Spring Boot APIs, enabling real-time fraud risk visibility and accelerating investigation turnaround time.
- Strengthened CI/CD pipelines using Docker, Jenkins, and SonarQube quality gates, increasing automated test coverage above 90% and improving release cadence from quarterly to bi-weekly.
- Orchestrated Spring Batch settlement processing jobs with monitoring integrations, reducing manual intervention and lowering P1 incident MTTR by 40%.

Kaiser Permanente — Software Engineer | Bengaluru, India | Jun 2019 – May 2021

- Designed and developed full-stack healthcare applications using Java 8, Spring MVC, and Angular, implementing secure REST APIs and dynamic UI components to improve clinician workflow efficiency by 30%.
- Engineered HIPAA-compliant RESTful services with encryption, row-level security, and audit logging mechanisms, ensuring 99.99% data reliability across patient-facing systems.
- Deployed and maintained applications on AWS (EC2, S3, RDS), configuring CI/CD pipelines to streamline build, test, and release processes across environments.
- Implemented asynchronous patient notification workflows using Spring Scheduler and messaging integrations, reducing appointment no-shows by 15% and improving prescription adherence by 20%.
- Developed reusable service components and integrated Swagger/OpenAPI documentation standards, improving API consistency and reducing cross-team integration issues by 15%.

EDUCATION

Southern Arkansas University, Magnolia, AR

Master of Computer & Information Science | May 2025

CERTIFICATION

- **AWS Certified Developer – Associate** | Amazon Web Services | Issued Jun 2025
- **Aviatrix Certified Engineer – Multicloud Network Associate (ACE)** | Aviatrix, Inc. | Issued Feb 2025