

Arun Pal (Senior Java Backend Engineer)

Portfolio: arunpal.vercel.app

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Location: Ghaziabad, India

Education

- Dr. APJ Abdul Kalam Technical University** Lucknow, India
B.Tech – Computer Science and Engineering; CGPA: 7.2 Aug 2014 – Jul 2018

Skills Summary

- Core Skills:** Java, SQL, GO, Python, JavaScript, ExtJS, jQuery, Algorithms & Data Structures; System Design
- Framework:** Spring Boot, Micronaut, Spring Cloud, Hibernate, Angular
- DevOps & Cloud:** Docker, Kubernetes, Jenkins, CI/CD, SonarQube, Git/SVN, Datadog | AWS
- Databases & Messaging:** MySQL, MongoDB, Oracle DB, PostgreSQL, Redis, Apache Kafka
- Big Data & Distributed:** Apache Spark, Apache Airflow, Temporal Workflow, Hadoop
- Testing & Security:** JUnit 5, TestNG, Mockito, Gatling, Blackduck, Checkmarx, Container Scans
- Performance Optimization:** JVM tuning, Thread dump analysis, Profiling tools

Experience

- Precisely Software & Data Solutions** Noida, India
Senior Software Engineer Oct 2021 – Present
 - Developed end-to-end API solutions**, covering functionality, performance optimization, security best practices (OAuth2, JWT), and robust error handling, ensuring seamless integration with microservices.
 - Designed and implemented highly optimized, scalable APIs in Java**, leveraging multi-threading, caching mechanisms (Redis), and efficient database interactions to improve response times by 30%.
 - Managed API deployments on cloud platforms AWS** with Kubernetes configuring API Gateway with authentication, rate limiting, DDoS protection, and logging mechanisms to enhance security.
 - Conducted in-depth code** reviews across multiple modules, ensuring adherence to clean code principles, SOLID design Patterns and performance optimizations, reducing production issues by 40%.
 - Designed and implemented observability and logging mechanisms**, using Datadog, improving system monitoring and incident response times., integrating JUnit 5, and Gatling into CI/CD pipelines to enhance reliability and deployment efficiency.
 - Designed and implemented observability and logging mechanisms**, using Datadog, improving system monitoring.
 - Mentored junior developers** and enforced clean code, SOLID, code reviews and Agile practices to improve delivery quality.
- Trangle Software Solution** Noida, India
Software Engineer Feb 2020 – Sep 2021
 - Partnered with cross-functional teams for requirement gathering and authored Technical Specification Documents (TSD).
 - Developed Java and Oracle-based modules aligned with technical documentation and quality guidelines.
 - Prepared code review reports and release documentation for UAT and production deployments.
 - Integrated Advance Deposit and Prepaid Card payment modules across applications for seamless payment workflows.
 - Migrated applications from OC4J to JBOSS; upgraded Java 5→8 and ensured Oracle DB compatibility and stable transition.
- Vinculum Software Solution** Noida, India
Associate Software Engineer Jul 2018 – Jan 2020
 - Assisted senior engineers in design and development of Java and Oracle-based solutions.
 - Contributed to technical documentation for development, deployment and release processes.

Projects

- Bulk File Processing:** Designed and built an asynchronous large-file processing platform using AWS S3, Apache Kafka, Apache Spark and Temporal with chunk-based processing, multipart uploads, workflow retries and secure CSV export using pre-signed URLs.
- DIS Data Quality Pipeline:** Developed Spark Streaming and Databricks pipelines with grouping and geocoding operators to automate data quality improvement and reduce manual data correction effort.
- Swagger File Validation:** Created an automated framework to validate Swagger files by checking schemas, examples and generated Swagger clients, ensuring production-ready API specifications and consistent API responses.
- Runtime Data Pipeline:** Implemented an Excel-driven CI/CD pipeline that uploads datasets to S3 and triggers automated data refresh workflows for the Addressing API without requiring code changes.
- S3 CSV Chunk Processing:** Developed a high-performance CSV reader that processes large S3 files in non-overlapping chunks without line breaks or character overlap, supporting multi-byte characters with full data accuracy.

Certifications

- HackerRank:** Java, Problem Solving, SQL, CSS
- Udemy:** Spring Boot Foundation, Micronaut, AWS