Armen Ghazaryan

Senior Software Engineer — Java, Distributed Systems & Payment Security

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UTC+4 — full overlap with Gulf teams, 2–3 hours ahead of Central Europe

SUMMARY

Senior Java engineer with **8+ years** in high-load systems: payment security, enterprise software and an AI-powered creative platform. Senior Software Engineer at **Picsart** (150M+ monthly active users, tens of thousands of requests per second): Java 21 / Spring Boot microservices and Kafka event pipelines on Google Kubernetes Engine, contributing to the integration of generative AI features.

Previously three and a half years on **3-D Secure 2.x** at **Worldline** — challenge and frictionless authentication, exemptions and soft declines under PSD2/SCA, PCI DSS-compliant code on the critical transaction path — and before that Java/Spring backends over Cassandra and Elasticsearch at **Synopsys Armenia**.

TECHNICAL SKILLS

Languages: Java 21 (virtual threads, records, pattern matching), SQL, Groovy

Frameworks & Architecture: Spring Boot 3.x/4.x, Spring Security, Spring Data JPA, Spring Data MongoDB, Spring Cloud; microservices, event-driven architecture, domain-driven design; REST, gRPC, OpenAPI

Messaging & Data: Apache Kafka (including Kafka Streams), RabbitMQ; PostgreSQL, Oracle, MongoDB, Redis, Cassandra, Elasticsearch

Cloud, Containers & DevOps: Kubernetes (GKE, OpenShift), Docker, Helm; GCP, AWS (ECS/EKS, S3); CI/CD with GitHub Actions, Jenkins and GitLab CI

Observability & Quality: Datadog, ELK/EFK, Micrometer, OpenTelemetry, Prometheus, Grafana; JUnit 5, Mockito, Testcontainers, SonarQube

Security & Payments: 3-D Secure 2.x (EMVCo), PSD2/SCA, PCI DSS, OAuth2/OIDC, JWT, mTLS, secure coding, fraud prevention, encryption and tokenization

AI: generative AI features in production — image and video generation, model orchestration

Other: Git, Maven, Gradle, Linux, Agile/Scrum, performance profiling and JVM tuning

PROFESSIONAL EXPERIENCE

Picsart

Senior Software Engineer | January 2023 — Present

AI-powered creative platform with 150M+ monthly active users and tens of thousands of requests per second.

- Develop and maintain mission-critical backend services in **Java 21 and Spring Boot**.
- Build and optimize microservices and **event-driven pipelines on Apache Kafka**, over MongoDB, Redis and Elasticsearch.
- Contribute to the integration of **generative AI features** — image and video generation, model orchestration — improving the latency and reliability of AI workflows.
- Run services on **Kubernetes (GKE)**; take part in CI/CD, observability (Datadog, ELK) and performance tuning of p99 latency and throughput.
- Review code, mentor mid-level engineers, and contribute to architecture decisions on scalability and resilience.

Worldline SA

Java Developer — Payment Security (3-D Secure) | July 2019 — January 2023

3-D Secure 2.x (EMVCo) authentication for online card payments under PSD2/SCA.

- Developed and maintained **3-D Secure 2.x** components: challenge and frictionless authentication flows, liability shift, exemptions and soft declines under **PSD2/SCA**.
- Implemented integrations with acquirers and issuers and handled the edge cases of the critical transaction path, improving conversion and reducing false declines.
- Worked to **PCI DSS**: secure coding, audit-ready logging and fraud-prevention logic in high-availability systems.
- Built on Java and Spring Boot, with **Kafka** for event-driven processes, Docker and Kubernetes, Oracle and PostgreSQL.
- Wrote unit and integration tests (JUnit, Mockito, Testcontainers); took part in code review and the on-call rotation.

Synopsys Armenia

Java Developer | December 2017 — July 2019

- Developed backend components of enterprise EDA tools in **Java and Spring**.
- Worked with large data volumes in **Cassandra** and **Elasticsearch**; optimized performance and queries.
- Took part in refactoring, unit testing and support of cloud-native components.