Volodymyr Milyukov
Senior Senior Java Backend Engineer

SUMMARY

- Senior Java Backend Engineer with 10+ years of experience delivering high-throughput, production-grade systems in healthcare and fintech domains.
- Expertise in Java (8 to 22), Spring Boot (2.7 to 3.5), microservices, Hexagonal and Clean Architecture, and SOLID principles ensuring scalable and maintainable codebases.
- Proven track record in architecting backend services, optimizing PostgreSQL performance, and integrating AWS cloud services including S3 and ECS.
- Hands-on experience with real-time big data pipelines processing 20+ TB/day using Kafka, Spark, Hadoop, and Cassandra.
- Strong foundation in computer science with M.Sc. degree and extensive knowledge of RESTful API design, CI/CD pipelines, and test-driven development using JUnit, Mockito, and Jacoco.

TECHNICAL SKILLS

Main Technical Skills	Java (10 yr.), Spring Boot (5 yr.), RESTful API (5 yr.), microservices (3 yr.), AWS (3 yr.)
Programming Languages	Groovy, Java (10 yr.)
JavaScript Frameworks	Angular (6 yr.)
Java Frameworks	Apache Spark (1 yr.), Hibernate (6 yr.), Spring, Spring Boot (5 yr.)
Scala Frameworks	Apache Spark (1 yr.)
Java Libraries and Tools	EJB (6 yr.), MapStruct
Data Analysis and Visualization Technologies	Apache Spark (1 yr.)
Databases & Management Systems / ORM	Apache Hadoop (1 yr.), Apache Spark (1 yr.), Cassandra (1 yr.), Hibernate (6 yr.), Liquibase (3 yr.), MySQL (1 yr.), Oracle Database (6 yr.), PostgreSQL (3 yr.), Redis, Vertica (1 yr.)
Cloud Platforms, Services & Computing	AWS (3 yr.)
Amazon Web Services	AWS API (1 yr.), AWS Security Groups (3 yr.)
Google Cloud Platform	Google BigQuery (1 yr.)
SDK / API and Integrations	AWS API (1 yr.), JWT (3 yr.), RESTful API (5 yr.), Stripe (1 yr.), Twilio

Deployment, CI/CD & Administration	CD DevOps pipelines (3 yr.)
Methodologies, Paradigms and Patterns	Clean Architecture, DRY (3 yr.), microservices (3 yr.), MVC
QA, Test Automation, Security	Cucumber, JUnit (6 yr.), Mockito (3 yr.)
Virtualization, Containers and Orchestration	Docker (3 yr.)
Mail / Network Protocols / Data transfer	JWT (3 yr.)
Message/Queue/Task Brokers	Kafka (1 yr.)
Operating Systems	Linux (1 yr.)
Platforms	monday.com (1 yr.), sendgrid
Other Technical Skills	framework, Jacoco (1 yr.), JUnit 5 (3 yr.), Spring model-view-controller

WORK EXPERIENCE

Java Backend Developer - Group 107 (MPCheck)

Duration: Apr 2023 – Present
Summary:

- MPCheck is a healthcare platform focused on patient management, scheduling, and secure medical document handling
- The platform leverages modern Java technologies and cloud services to deliver scalable and secure healthcare solutions

Responsibilities:

- Architected core backend services using Spring Boot 3.5 and Hexagonal Architecture ensuring clean separation of layers.
- Designed and implemented RESTful APIs for patient management, scheduling, and authentication workflows.
- Integrated AWS S3 presigned URLs for secure medical document handling, reducing upload latency and improving user experience.
- Implemented JWT-based authentication with token refresh and integrated SendGrid and Twilio for transactional notifications.
- Delivered a multi-region configuration system for dynamic regional adaptation at runtime.
- Optimized PostgreSQL queries and schema design to reduce average API response time.
- Collaborated with frontend and DevOps teams on OpenAPI documentation and CI/CD pipelines.

Technologies: Java 22, Spring Boot 3.5, Spring Security, JPA/Hibernate, PostgreSQL, Liquibase, AWS S3, Docker, MapStruct

Java Backend Developer - Group 107 (ENSO)

Duration: Aug 2021 – Mar 2023
Summary: ENSO is an all-in-one SMB Super App providing various backend modules to support small and medium business operations, integrating multiple third-party services for payments, project management, and e-commerce.
Responsibilities:

- Built microservice-based backend modules using Spring Boot 2.7 and clean architecture principles.
- Designed and optimized RESTful APIs integrating Stripe, Monday.com, Amazon SP API, and AWS services.
- Implemented secure authentication and authorization using JWT and Spring Security with token lifecycle management.
- Managed database migrations with Liquibase and optimized PostgreSQL queries for performance-critical flows.
- Maintained code quality using Jacoco, Mockito, JUnit 5, and Checkstyle.

Technologies: Java 17, Spring Boot 2.7, PostgreSQL, AWS (S3, ECS), Stripe API, Liquibase, Docker

Software Engineer - Vakoms (customer: Taboola) (Taboola Real-Time Data Pipeline)

Duration: Nov 2019 – Jul 2021
Summary: Taboola operates one of the world's largest real-time big data pipelines, processing over 20 TB of data daily to deliver personalized content recommendations to over 1 billion unique visitors monthly.
Responsibilities:

- Developed and maintained backend services for Internet Personalization, Content Feed, and Real-Time Bidding systems.
- Worked with high-throughput distributed systems using Kafka, Apache Spark, Hadoop, Cassandra, and Vertica.

Technologies: Java, Kafka, Spark, Hadoop, Cassandra, Vertica, MySQL, HDFS, BigQuery, Docker, Linux

Software Engineer - EPAM Systems (customer: SAP SE) (SAP Marketing Support Project)

Duration: Jul 2019 – Nov 2019
Summary: SAP Marketing support project involves enhancing and maintaining SAP's marketing software solutions to improve marketing automation and customer engagement.
Responsibilities:

- Implemented new features and fixed bugs to enhance SAP Marketing support functionalities.

Technologies: Java 8, Spring Boot, Spring WebFlux, Spring Security, Groovy, Cucumber

Software Engineer - Conscensia (Danish Enterprise Projects)

Duration: Sep 2013 – Nov 2019
Summary: Worked on multiple Danish enterprise projects including a clinical information system deployed in Danish hospitals, a municipal integration platform, and a tax

management platform, delivering full-cycle backend development.
Responsibilities:

- Developed domain logic, REST/SOAP services, and database design.
- Performed unit and integration testing to ensure software quality.

Technologies: Java 8, Spring MVC, Spring Webflows, JPA/EJB, Oracle DB, JUnit, Mockito, Angular

EDUCATION

- **M.Sc. Computer Science**
  Lviv Polytechnic National University
  1995 – 2000