



## Abgar Simonean

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### ABOUT ME

I'm a passionate and pragmatic Senior Software Engineer with 7+ years of experience building robust, scalable, and secure backend and full-stack systems across cloud infrastructure, data pipelines, REST APIs, and mobile/web applications.

At the intersection of backend architecture, data engineering, and developer tooling, I've designed and delivered high-impact systems for large companies supporting everything from developing data intensive APIs to manufacturing data ingestion pipelines and OAuth2-compliant identity platforms, as well as offline-first mobile apps.

My work spans:

- **Spring Boot microservices** — clean architecture, OAuth2/OIDC, token flows, secure APIs
- **Google Cloud Platform (GCP)** — GKE, Cloud SQL, BigQuery, Cloud Composer, IAM, Secret Manager
- **Apache Beam pipelines** — for streaming & batch metadata enrichment, delta merging, AVRO export
- **Keycloak & Spring Authorization Server** — fine-grained authentication flows (PKCE, OTP, Google SSO)
- **Flutter apps** — clean BLoC architecture, offline-first support, secure token storage, Dio clients
- **Advanced caching mechanisms** — including custom Redis snapshot/restore logic for failover and state hydration
- **Tooling & automation** — GitHub Actions, Docker, Helm, CI/CD pipelines, Kubernetes ops

I enjoy solving complex cross-functional challenges — whether designing a multi-tenant authorization flow, engineering a metadata restore strategy, or leading a bottom-sheet modal interaction for a Flutter mobile UI.

### WORK EXPERIENCE

#### RENAULT – REMOTE

##### **SENIOR SOFTWARE ENGINEER - DATA ENGINEERING** – 01/07/2023 – CURRENT

As a Senior Java Engineer took part in delivering scalable, secure, and data-driven software solutions powering Renault's global manufacturing analytics platform. I work across the stack — from Apache Beam data pipelines and BigQuery to Spring Boot APIs and JS UIs — enabling data science teams and plant engineers to make smarter decisions with real-time and historical insights.

- Built robust Apache Beam pipelines to extract, enrich, and validate multi-source sensor and manufacturing data, deployed on GCP Dataflow and orchestrated via Cloud Composer DAGs.
- Designed and developed Spring Boot REST APIs for ingesting and exposing production metadata, used by GCS platforms.
- Designed and implemented a robust Redis cache backup & restore system, enabling automated persistence of critical in-memory state to cloud storage with versioned snapshots and delta recovery logic. Supported both warm startup restores and failover recovery, reducing downtime risk and improving disaster recovery SLAs.

#### Tech Stack

- Java EE + Spring Boot + Postgres
- GCP + Apache Beam + BigQuery + Redis
- Angular Js

#### GRID DYNAMICS – CHISINAU, MOLDOVA

##### **SENIOR FULL-STACK SOFTWARE DEVELOPER** – 02/06/2022 – 01/07/2023

As a full-stack software developer, took part in development of an high-performance analytical tool designed to monitor and report suspicious activity in a large e-commerce environment. The platform ensures compliance with evolving AML (Anti-Money Laundering) regulations and was engineered to handle service-level agreements (SLAs) of 200,000 requests per second.

#### **Key Responsibilities:**

- Developed and maintained scalable backend services using Java EE, Spring, and Spring Boot.
- Leveraged NoSQL databases to efficiently store and query large volumes of behavioral and transactional data in near real-time.
- Built dynamic, data-driven UI components using React, Redux, and LESS to visualize risk indicators and alert flows.

#### **Technology stack:**

- JavaScript + React + Redux + LESS
- Java EE + Spring/Spring Boot
- NoSQL + NuData
- Git + GitHub

### **ENDAVA – CHISINAU, MOLDOVA**

#### **JAVA SOFTWARE DEVELOPER – 01/07/2019 – 01/06/2022**

Contributed to the design, development, and support of a secure, enterprise-grade financial platform enabling central banking operations and Immediate Payment System (IPS) integrations for countries including Philippines and Peru. The system facilitated high-throughput, real-time transaction processing across national banking networks.

#### **Key Responsibilities:**

- Designed and implemented core modules using Java EE, Spring, and Spring Boot within a highly modular and layered architecture.
- Developed secure data access layers using Spring JDBC over Oracle and IBM DB2, ensuring transactional integrity and compliance.
- Wrote comprehensive unit and integration tests using Mockito, AssertJ, and Spring Test, and maintained robust API contracts using OpenAPI.
- Collaborated with cross-functional teams to ensure scalability, high availability, and compliance with strict financial security standards.
- Employed Git and Github for source control, code review, and continuous integration.

#### **Technology stack:**

- Java EE + Spring/Spring Boot
- IBMDB + Oracle + Spring JDBC
- Git + GitHub
- AssertJ + Spring Test + OpenAPI + Mockito

### **ENDAVA – CHISINAU, MOLDOVA**

#### **INTERN SOFTWARE MENTOR – 01/02/2020 – 01/06/2020**

As a development mentor I was part of Endava Spring internship and got assigned an aspiring software development intern, My responsibility was to ensure intern was successfully learning the necessary technology stack in a friendly and productive environment.

#### **Responsibilities:**

- Sharing accumulated real world experience and insights
- Supporting in cases of misunderstanding of material
- Mentoring through internship process
- Helping with socialization and networking

#### **Technology stack (learned by interns):**

- Java EE (OCA level)
- ORM (JPA + Hibernate)
- IoC and DI (Spring framework)
- SQL
- VCS (Git + BitBucket)
- Clean Code and best practices
- and many more

Also, should be noted that the above mentioned intern passed the internship period successfully and had no troubles integrating into the project.

### **ISD MOLDOVA – CHISINAU, MOLDOVA**

#### **SOFTWARE MAITANER/DEVELOPER – 27/09/2018 – 20/06/2019**

Participated in the development and maintenance of large-scale logistics platforms serving international clients across regions including the Netherlands, Belgium, USA, and Finland. These systems supported critical supply chain operations, shipment tracking, and warehouse integration.

## Key Responsibilities:

- Designed and implemented backend features using Java EE and Spring frameworks.
- Maintained data integrity and migration consistency with PostgreSQL, Oracle, JPA, and Liquibase.
- Integrated messaging workflows using JMS to enable asynchronous processing across distributed services.

## Technology stack:

- Java EE + Spring + JMS
- PostgreSQL + JPA + Liquibase, Oracle + JDBC
- SVN

### ISD MOLDOVA – CHISINAU, MOLDOVA

#### **INTERN SOFTWARE DEVELOPER** – 20/05/2018 – 20/08/2018

Was a part of a successfull internship, during which we developed a cross platform app **Motivision**. The idea of the application was to encourage healthy activities in form of a reward based game.

[GitHub Link](#)

### SELF-EMPLOYED – CHISINAU, MOLDOVA

#### **FREELANCE CONTRACTOR** – 01/08/2017 – 19/05/2018

Designed, developed and deployed pharmaceutical company website - <http://lismedfarm.md/>.

## ● EDUCATION AND TRAINING

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01/09/2022 – 30/06/2024 Chisinau, Moldova

#### **MASTERS IN SOFTWARE ENGINEERING** USM (Moldova State University)

01/09/2017 – 01/06/2020 Chisinau, Moldova

#### **BACHELORS IN COMPUTER SCIENCE** USM (Moldova State University)

Learning the fundamentals of Computer Science and Software development like :

- Programming in C, C++, Java, PHP, Prolog, Wolfram
- Basic programming concepts like:
  - OOP
  - Functional programming
  - Software testing
  - Networking basics
- Math fundamentals needed in computer science like:
  - Sorting algorithms
  - Graph algorithms
  - Numeric calculations.

## ● LANGUAGE SKILLS

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Mother tongue(s): **RUSSIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ROMANIAN</b>	B1	B1	A2	B1	A2
<b>ENGLISH</b>	C2	C2	C2	C2	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● JOB-RELATED SKILLS

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### Job-related skills

## **Programming Paradigms**

- Object-Oriented Programming (OOP)
- Aspect-Oriented Programming (AOP)
- Functional Programming

## **Backend Development**

- **Languages:** Java SE, Java EE (OCP-level), JavaScript, Dart
- **Frameworks:** Spring Framework, Spring Boot, Hibernate, Spring MVC, Apache Beam
- **Persistence:** JPA, JDBC, JMS
- **Database Migration Tools:** Liquibase, Flyway

## **Frontend & Mobile Development**

- **Web:** JavaScript, React.js, Redux, AngularJS, Less
- **Mobile:** Flutter (Dart), Native Android

## **Authentication & Security**

- OAuth2 & OpenID Connect using Keycloak
- Spring Authorization Server

## **DevOps & CI/CD**

- **Build Tools:** Maven, Gradle
- **Containerization:** Docker
- **Version Control:** Git, GitHub, Bitbucket, TortoiseSVN
- **CI/CD Integration:** GitHub Actions, custom deployment pipelines

## **Database Systems**

- **Relational:** Oracle, PostgreSQL, IBM DB2
- **NoSQL:** NuData, Mongo

## **Cloud & Infrastructure**

- **Google Cloud Platform (GCP):** Cloud SQL, GKE, Cloud Storage
- Kubernetes (basic deployment knowledge)
- Cloud SQL Proxy
- Google Managed Certificates, Ingress configuration

## **Data Engineering & Big Data**

- Apache Beam (Java SDK)
- GCP Dataflow
- BigQuery integration and performance tuning
- Metadata pipelines and AVRO serialization
- Airflow

## **Architecture & Design**

- Domain-Driven Design (DDD)
- Clean Architecture (Flutter & Java)
- BLoC State Management in Flutter

## **Methodologies & Tools**

- Agile (Scrum, Kanban)
- Jira, Confluence
- Technical documentation and collaboration

## **CERTIFICATIONS**

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15/01/2020 – CURRENT

### **OCP (Oracle Certified Professional)**

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**OCP** also known as

#### **Oracle Certified Professional, Java SE 8 Programmer.**

An Oracle Certified Professional, Java SE 8 Programmer has validated their Java development skills by answering challenging, real-world, scenario-based questions that measure problem solving skills using Java code.

#### **Demonstrated skills:**

- Java Concurrency
- Java 8 Stream API + Functional Interfaces
- Design Patterns
- Java Localization + Date/Time API

**Link:**

Youracclaim [Badge](#)

17/05/2019 – CURRENT

## OCA (Oracle Certified Associate)

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**OCA** also known as

**Oracle Certified Associate, Java SE 8 Programmer.**

An Oracle Certified Associate, Java SE 8 Programmer certificate demonstrates knowledge of object-oriented concepts, the Java programming language and general knowledge of Java platforms and technologies.

**Demonstrated skills:**

- Java OOP concepts
- Java 8 standard library
- Lambda expressions
- Java standard syntax

**Link:**[Youracclaim Badge](#)

## ● PROFESSIONAL ASSOCIATIONS

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01/10/2025 – CURRENT

## Senior member of IEEE

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