

Bogdan - Cosmin Iordache

email: bogdan@ibctechstudio.com

tel: +40.729.716.004

bogdan.ibctechstudio.com

linkedin.com/in/biordach

github.com/biordach

leetcode.com/biordach



About me

- *As a seasoned software engineer with over 14 years of experience in back-end development, I excel in solving complex challenges and driving innovation. My extensive experience allows me to identify opportunities for architectural and code improvements and anticipate potential edge cases proactively.*
- *I am passionate about leveraging technology to create impactful solutions and continually explore new tools and methodologies. My expertise includes a diverse range of programming languages and frameworks, with a particular focus on distributed systems, microservices architecture, and data engineering.*
- *My main expertise area is web-services development (Java, Spring Boot, AWS), but I also have experience in web development (React, JavaScript) and big data (Apache Spark, Apache Flink, Apache Kafka).*
- *I have a solid foundation in algorithms and data structures hardened in national programming contests and olympiads, which enables me to find elegant and efficient solutions to complex problems.*

Linked-in recommendations summaries

Guillaume Vaudaux-Ruth

Datakili CTO, 2021

- *"It was super easy to work with Bogdan, good personality, excellent technical knowledge, always comes up with clean solutions. [...]"*

Corneliu Chirnoaga

Senior Software Developer at IBI, 2020

- *"I was very impressed by Bogdan's professionalism in many ways [...]"*

Narcis Mihai

Technical Product Owner at Playtika, 2020

- *"Bogdan sets the standard when it comes to technical knowledge. His ability to understand complex business requirements and translate them to robust and maintainable code is what sets Bogdan apart. [...]"*

Work Experience

- **Royal Bank of Canada Capital Markets** (Remote) Bucharest, Romania
Senior Java Developer January 2023 - April 2024
 - Data Integrity: Analysed and resolved data integrity issues due to primary key collisions.
 - Performance Optimization: Enhanced query performance by 500% in certain scenarios by optimising data locality and utilising distributed query execution for 'group by' queries, resulting in a 200% reduction in network traffic.
 - Report Relevance: Increased report relevance by 50% through an event-driven approach to trigger ETL jobs upon data updates from upstream services, ensuring traders received the most up-to-date reports. Disabling scheduled ETL triggers also reduced cache load by 15%.
 - Quality Assurance: Developed a utility tool to automatically retrieve and process logs from Kibana, verifying thousands of events daily and identifying issues in upstream services (event publishers) early in the testing phase.
- **TUI.com** (Remote) Bucharest, Romania
Full Stack Developer January 2022 - December 2022
 - Designed and prototyped a solution for keeping OpenSearch indexes up to date and doing on-demand reindexing of data stored in Kafka log-compacted topics.

- Designed and implemented versioning to the project's API and data model.
- Implemented a versatile algorithm to merge model objects using reflection, according to the rules defined.
- Contributed to 'Content Dashboard' UI application. Implementing reusable React UI components.
- Migrated several Spring Applications from Kubernetes to AWS ElasticBeanstalk and AWS Lambda. Did code and terraform infrastructure adjustments.
- Technology stack: AWS, Java 11, Spring Boot, OpenSearch, Typescript, React, Docker, Kubernetes, Terraform.

- **Qualitest / Elbit Systems** (Remote) Bucharest, Romania
Back-End Team Lead / Scrum Master September 2021 - December 2021

- Developed a few 'nano' services that were relying on Kafka for communication.
- Significantly improved an integration testing framework based on the test containers library.
- Technology stack: Java 15, Spring Boot, Apache Flink, Kafka, Docker, Kubernetes, event driven architecture.

- **Datakili** (Remote) Bucharest, Romania
Senior Back-End and Big Data Developer February 2021 - September 2021

- Implemented a tool for bench-marking Scala and Spark jobs performance. Using this tool I was able to reduce a job's running time by 66% while making sure the behaviour didn't change. Proposed other performance improvements.
- Created an abstraction layer of the file system for the web services and big data jobs. Added support for Google Cloud Storage, S3 and local file system.
- Added support for storing user credentials in Maria Db as opposed to the LDAP server currently used for this purpose.
- Technology stack: Java 8, Spring Boot 2, Maria Db, Vault, Scala, Apache Spark, Apache HDFS, Apache Livy, Kibana, Maven, Git, Ansible.

- **Information Builders** (Remote) Bucharest, Romania
Senior Java Developer April 2020 - November 2020

- Laid the foundation of a new, multi-tenant, project aiming to unify and modernize existing enterprise (on premise) solutions. Was responsible for the project setup with graph database connectivity and usage, local developer environment setup and functional testing setup using test containers library. The project was designed to be cloud and graph database agnostic. Also coordinated with the dev-ops team to deploy the project to AWS cloud.
- Technology stack: Java 8, Spring Boot 2, JanusGraph backed by Cassandra and SOLR, Gremlin, JWT, Test Containers, Rest Assured, Docker Compose, Maven, Git.
- Conducting technical interviews focused on assessing java, algorithms / data structures, frameworks knowledge.

- **Playtika Ltd. - Core department** Bucharest, Romania
Senior Java Developer / Scrum Master March 2019 - April 2020

- Was in charge of developing a microservice that keeps configurations in Maria Db (modifiable through REST APIs), processes messages read on several Kafka topics and updates player state stored in Aerospike according to the configurations.
- Technology stack: Java 11, Spring Boot 2, Spring Cloud, Spring JPA, Spring Kafka, Spring Test Containers, Lombok, Maria Db, Aerospike.
- Conducted technical interviews focused on assessing java, algorithms / data structures, frameworks knowledge.

- **Adobe Systems, Inc. - Digital Marketing Department** Bucharest, Romania
Big Data Engineer January 2018 - February 2019

- Customer Journey Analytics: Big Data processing pipeline consisting of several Spark applications written in Scala communicating with each other using Kafka topics.

Implemented a priority queue capable of message deduplication using Scala and Kafka Streams to replace an SQS queue. Application performance increased dramatically as the same data was processed a single time.

My responsibilities included implementing features and fixes for the Scala and Spark components, as well as devops work: provisioning the DC/OS cluster using Ansible and configuring monitoring and alerting using Prometheus.

Technology stack: Mesos DC/OS, Spark, Scala, Kafka, HDFS, HBase, Ansible, Prometheus, Grafana, OpenTSDB.

- **Adobe Systems, Inc.** Bucharest, Romania
Full Stack Developer *July 2011 - December 2017*
 - During my employment at Adobe I worked in many of the areas of software development: mobile, web, dev-ops, web services running in AWS, big data. Details can be provided upon request.

Skills

- **Strong points:** Good communication with team members but can also work well on my own, flexibility on technologies and fast learner, memory/performance/algorithmic optimizations, emphasis on performance and code quality.
- **Programming skills:** Java & Spring framework, Scala & Apache Spark, Typescript & React, AWS, Apache Kafka, Algorithms and Data Structures, SQL / NoSQL DBs, Kubernetes, Docker, IntelliJ, Git, Jenkins, Gradle/Maven, Jira, Agile/Scrum

Awards

Olympiad in Informatics 2006 - 2009

- Qualified for three times for the National stage (ONI) years of high school: 2006, 2007 (mention) and 2009 (20th place).

ACM-ICPC Contest 2011 - 2012

- Qualified for the National stage years: 2011, 2012.
- Participant in ACM training camp (2011).

Education

- **'Politehnica' University** Bucharest, Romania
Bachelor of Science in Computer Science *2009 - 2013*
- **"Mircea cel Batran" National College** Constanta, Romania
Graduated *2007 - 2009*