Busuioc Egor

Java Developer | busuiocegor.portfolio

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PROJECTS

HessenLand   *05/2025 – present*

A secure, scalable microservice-based application built with Spring Boot and Spring Cloud.   github.project.link

Backend Developer Responsibilities

- Designing the application with **real-world scalability** and architecture in mind, following modern backend practices.
- Using **Docker containerization** to support deployment and scalability.
- Built on Spring Cloud, including:
  - **Spring Cloud** Gateway for request routing and centralized security filtering.
  - **Netflix Eureka** for service discovery and dynamic scaling.
- Implemented **Spring Security** with **JWT authentication**, with the authentication filter located at the Gateway level.
- Developed email-based user registration flow using **JavaMailSender (Spring Email)** for confirmation emails.
- Microservices communicate via a **Kafka Message Broker**, ensuring asynchronous and decoupled inter-service communication.
- Integrated **Spring Scheduling** to automatically clean up expired tokens from the database.
- Planned future enhancements include:
- **Redis**-based caching:
  - Query results (e.g. apartment search) are cached for 48 hours.
  - If the same query is requested again within 48 hours, cache is served and the timer resets.
  - Caching logic considers newly available apartments.
- Planned frontend: built with **Angular**, enhanced with **GSAP** for animations.
- **Stack:** Spring Boot, Spring Cloud (Gateway, Eureka, Config), Spring Security, JWT, Spring Email, Apache Kafka, PostgreSQL, Redis, Spring Scheduling, Angular, GSAP, Netflix Eureka, Python, TensorFlow, Docker.

IETEC Orthopädische Einlagen GmbH   *03/2025 – 08/2025*

DeltaWatch – Change Data Capture Java microservice based application.   unavailable

Backend Developer Responsibilities (DeltaWatch project).

- Worked as a **backend developer** in a **12-person team** on a microservice-based architecture.
- Implemented JWT-based authentication system, including:
  - Access and refresh tokens.
  - Password recovery via email.
- User registration via email (as required by the business logic).
- Developed encryption of sensitive user data in the database to comply with privacy requirements.
- Built and maintained Spring Cloud Gateway for:
  - Routing requests between microservices.
  - Hiding internal endpoints from end users.
  - Centralized authentication/authorization filtering.
- Personally developed 3 microservices:
  - Security Service (authentication, authorization).
  - Notification Service (email sending and password recovery).
  - API Gateway (routing, auth delegation).
- Wrote Swagger/OpenAPI documentation for the services.
- Followed clean code principles, modular design, and Spring Boot best practices.
- **Stack:** Spring Cloud, Spring Security, MySQL, Spring Email, Spring JPA.

BikeShop   *03/2024 – 07/2024*
A modern monolithic Java application built with the Spring Framework.

- **Fully working end-to-end** application.
- Session-based authentication and authorization.
- Integration with Google APIs to determine user location.
- Server-rendered HTML pages (Thymeleaf).
- Admin functionality:
  - Upload and manage product listings.
- Customer features:
  - Browse product catalog.
  - Add items to cart.
  - View product availability and quantity.
  - Reserve/book products.
- Photo interaction:
  - Image swiping.
  - Upload photos via async requests with JavaScript.
- Smooth UI animations using GSAP.
- PostgreSQL as the main relational database.
- **Stack:** Java Spring Boot, Hibernate, Spring JPA, Spring WebMVC, JavaScript, GSAP, PostgreSQL.

PROFESSIONAL EXPERIENCE

Coherent Solutions   **Chișinău, Moldova**
Internship   *03/2024 – 07/2024*

- **Technical Skills:** Successfully completed a production-level software development traineeship with a strong focus on Java and the Spring Framework ecosystem.
- **Backend Development:** Gained hands-on experience in building clean, maintainable, and scalable backend applications using Java, Spring Boot, and related technologies.
- **Spring Ecosystem Proficiency:** Worked with key Spring modules such as Spring Data JPA, Spring Security, Spring MVC, and Spring Validation to build secure and efficient web applications.
- **Agile Fundamentals:** Collaborated in Agile teams using Scrum methodology, participating in sprint planning, daily stand-ups, and retrospectives to ensure iterative and transparent development.
- **Tool Proficiency:** Utilized tools like IntelliJ IDEA, Postman, Git, and Atlassian products (JIRA, Confluence) for development, testing, documentation, and team collaboration.
- **Object-Oriented Design:** Applied core OOP principles (encapsulation, inheritance, polymorphism, and abstraction) in designing robust and modular software components.
- **Problem-Solving Skills:** Tackled real-world challenges by developing and debugging Spring-based applications, following best practices in code structure, exception handling, and testing.
- **Commitment and Consistency:** Demonstrated strong dedication by successfully completing the program and building solid foundational skills for enterprise-level Java development.

Cedacri International   **Chișinău, Moldova**
Internship (Java & Angular)   *11/2023 – 02/2024*

- **Technical Skills**: Successfully completed a comprehensive 80-hour training course focused on **Modern Java** and **Angular** for application development.
- **Full-Stack Development**: Gained knowledge of back-end development using Java and front-end development with Angular, bridging the gap between server-side and client-side programming.
- **Practical Experience**: Developed hands-on skills in designing, building, and deploying applications by applying theoretical concepts to real-world scenarios.
- **Framework Proficiency**: Improved expertise in modern frameworks, tools, and technologies essential for efficient software development.
- **Application Development**: Learned best practices for creating scalable, interactive, and responsive web applications, ensuring optimal user experience and performance.
- **Commitment and Consistency**: Demonstrated dedication by successfully completing the intensive training program, enhancing professional and technical capabilities.

Endava   **Chișinău, Moldova**
Internship   *09/2023 – 12/2023*

- **Technical Knowledge**: Successfully completed a three-month training program focused on mastering Java and essential tools, including Git, SQL, Maven, Spring Framework, and Unit Testing.
- **Practical Skills**: Gained hands-on experience through real-world scenarios and projects, developing efficient and scalable software solutions.
- **Theoretical Understanding**: Developed a deep understanding of core Java concepts, object-oriented programming, and industry-standard software development practices.
- **Tool Proficiency**: Improved proficiency with modern tools like Git for version control, SQL for database management, Maven for project automation, and Spring for backend development.
- **Problem-Solving Skills**: Strengthened problem-solving abilities by learning and applying unit testing strategies to ensure software quality and reliability.

Ultra   **Chișinău, Moldova**
Internship   *05/2023 – 08/2023*

- **Infrastructure as Code (IaC):** Gained hands-on experience with Terraform to provision, configure, and manage infrastructure in a reproducible and scalable manner.
- **Containerization & Orchestration:** Worked with Docker to containerize applications and explored Kubernetes to orchestrate and manage microservices in development and testing environments.
- **Cloud Platforms:** Acquired foundational knowledge of public cloud providers (AWS / Azure / GCP), including resource deployment, basic networking, monitoring, and storage management.
- **Version Control & Collaboration:** Actively used Git for version control and collaborated with team members via GitHub and GitLab, following modern Git workflows and code review practices.
- **Agile Collaboration:** Worked in Agile teams following Scrum methodology, contributing to sprint planning, daily stand-ups, and retrospectives to drive continuous improvement.
- **System Administration:** Gained exposure to Linux server administration, shell scripting (Bash), and task automation for system maintenance and deployment tasks.
- **Networking & Routing Fundamentals:** Built a strong understanding of network protocols, subnetting, DNS, DHCP, VLANs, and routing concepts through Cisco networking labs and simulation tools like Cisco Packet Tracer.

47th Parallel   **Chișinău, Moldova**
Sales Associate   *02/2021 – 04/2021*

- **Customer Service Skills**: Assisted customers in selecting products, answering their questions, and providing detailed information about items, ensuring high customer satisfaction.
- **Sales Skills**: Met and exceeded sales targets by offering additional products and services, contributing to increased store revenue.
- **Merchandising Skills**: Maintained organized displays, updated price tags, and arranged products to ensure the store's appealing presentation.
- **Communication Skills**: Built strong rapport with customers, fostering a welcoming environment and encouraging repeat visits.
- **Teamwork Skills**: Collaborated with colleagues on tasks such as preparing for promotions and conducting inventory checks.

Operator in the Presidential Elections in the Republic of Moldova   **Chișinău, Moldova**
Central Electoral Council   *11/2020 – 11/2020*

- Assisted in the organization and execution of the presidential election process as a non-profit contribution to the democratic process.
- Operated electoral software and managed data entry, ensuring accuracy and compliance with election protocols.
- Contributed to the post-election process by verifying and consolidating data for final reporting.

EDUCATION

Hochschule Fulda   **Fulda, Germany**
M.Sc. Global Software Development   *10/2024 – 09/2026*

- Specialization: Software Engineering

Moldova State University   **Chişinău, Moldova**
B.Sc. Computer Science   *09/2021 – 07/2024*

- The program improves skills in computer science, such as Programming and Software Development, Data Structures and Algorithms, Web Development, Database Management, Cybersecurity and Cloud Computing.
- My focus: Java Backend Development.
- GPA is in the TOP 10% of bachelor's students.
- Thesis: "*Development of a server application with monolithic architecture in Java and Spring: from concept to implementation*".
- Elected as a Student Representative since September 2021.

High-school "Dimitrie Cantemir"   **Chişinău, Moldova**
Emphasis on real-world sciences   *09/2009 – 07/2021*

- 12 years of education, including final exams, provided me with a broad knowledge base and essential study skills.

SKILLS & LANGUAGES

- **Digital Skills:** Java Spring Framework, Git, GitHub Actions Relational DB, RESTful Apps, OOP, Algorithms; Microsoft Office (Excel, PowerPoint, Word, Power BI, SharePoint), DevOps Fundamentals, CI/CD Pipelines, Docker, Kubernetes, Terraform, Linux System Administration, Bash Scripting, AWS, Google Cloud.
- **Personal Skills:** Analytical Skills; Problem-Solving; Communication; Global Competency; Independent Working Style; Adaptation & Flexibility; Structured Working Style, Self-Responsibility.
- **Languages:** Russian (C2); English (C1); Romanian (B2); German (A2.1, currently improving).

CERTIFICATES & INTERESTS

- **Certificates:** Endava Certificate, Cedacri International Certificate, Coherent Solutions Certificate, IELTS.
- **Interests:** Travelling; Modern and Ancient History; Plant Care and Breeding; Reading; Sport (cycling, basketball, gym, hiking); Coffee brewing.