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# Aliaksey Kalinckovich.

STUDENT SOFTWARE ENGINEER

## Education

A third-year student at the Belarusian State University of Informatics and Radioelectronics (BSUIR).

My faculty: Computer Systems and Networks

My area of specialisation is: Programme Engineering (POIT)

## Language proficiency

English - B2

## Projects:

Github: [AlexKalinckovich \(Aliaksei\)](#)

## Location:

Belarus, Minsk

## Contacts:

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TG: @alexKalinck

## Domains

E-Commerce

Student Software engineer with 1+ years of internship experience.

A results-driven Software Developer with extensive experience in building scalable, high-performance web applications and RESTful microservices. Proficient in Java with the Spring Framework, as well as in Scala for microservices development. Skilled in designing event-driven architectures using Apache Kafka and adept at working with both SQL and NoSQL databases. Experienced in the full application lifecycle, from developing containerized applications with Docker and Kubernetes to establishing automated CI/CD pipelines in the Azure cloud. Committed to writing clean, robust code validated through comprehensive unit and integration testing. A collaborative team player who excels at solving complex technical challenges and delivering reliable, high-quality solutions on time.

## Main stack programming languages:

Java, Scala, SQL, JavaScript.

## Backend

Spring (Boot, Security, Data, MVC, Cloud), JPA (Hibernate), REST, SOAP, Websockets, OpenAPI, JSON, XML, YAML, FeignClient, WebClient, Liquibase, MapStruct, Lombok, JUnit, Mockito, Testcontainers, Keycloak, Maven, Gradle, ASP.Net Core, Entity Framework Core, ASP.NET MVC.

## Databases

PostgreSQL, MySQL, Redis, MongoDB.

## Event Streaming Platforms

Apache Kafka, RabbitMQ.

## DevOps

Docker, Docker-Compose, Kubernetes, Helm, OpenShift, Github Actions.

## Frontend

React, TypeScript, HTML, CSS

## Source control systems

Git, GitHub, GitLab.

## Management systems

Confluence, Jira.

# Projects

## E-COMMERCE PLATFORM

A backend system created for an online retail store to manage the entire sales process, from products to final delivery. It makes sure that all transactions are secure and provides integration with external payment and shipping services.

## Project roles

Software Engineer

Period

18.06.2025 – 14.10.2025

Responsibilities

- Implemented REST API endpoints for Product Management, implemented CRUD operations using Spring Boot and PostgreSQL;
- Contributed to the event-driven architecture by developing Kafka consumers to process order status updates from payment and shipping services;
- Maintained clear API documentation using OpenAPI;
- Developed and executed database migrations to support new application features and schema updates using Liquibase;

- Improved CI/CD pipelines in Github Actions, troubleshooting build failures and adding steps to automate code quality checks;
- Reduced the database query response time by adding indexes and materialized views;
- Assisted in frontend maintenance by identifying and resolving bugs in the user interface, improving application stability;
- Actively participated in Agile Scrum ceremonies, including daily stand-ups, sprint planning, and retrospectives.

#### Environment

Java, Spring(Boot, Data JPA, MVC, Security), REST, PostgreSQL, Redis, Apache Kafka, React, JUnit, Mockito, Testcontainers, MockMVC, Swagger, Git, GitHub Actions, Docker, Kubernetes, Helm, Jira, Hibernate, REST, WebSockets, PostgreSQL, MongoDB, JUnit, Mockito, Testcontainers, GitLab (CI/CD), Jenkins, Docker, Kubernetes, Helm, Maven, Confluence, Jira.

## SCALA TO-DO PROJECT

A scalable todo management backend built with Scala 3, featuring REST APIs, PostgreSQL storage, and functional programming patterns for reliable task tracking and organization.

### Project roles

Software Engineer

#### Period

17.10.2025 – Till now

### Responsibilities

- Designed and implemented RESTful API endpoints for comprehensive Todo management using http4s, supporting full CRUD operations and advanced filtering capabilities
- Developed the complete data access layer with Doobie functional JDBC, ensuring type-safe database interactions and efficient SQL query execution
- Implemented the service layer with Cats Effect for pure functional programming, managing

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business logic and data transformation between API and persistence layers

- Created custom JSON codecs using Circe for seamless serialization/deserialization of complex data types including UUID, Instant, and enum values
- Built configuration management system using Ciris with environment-based configuration loading and validation
- Designed and executed database schema migrations using Liquibase, including enum type definitions and performance indexes
- Implemented comprehensive test suites using MUnit and Cats Effect, including integration tests with TestContainers for real PostgreSQL testing
- Developed custom error handling middleware and HTTP response formatting for consistent API error responses
- Established CI/CD pipeline with GitHub Actions, configuring automated testing, build processes, and Docker image creation
- Containerized the application with multi-stage Docker builds for optimized production deployment

## Environment

Scala 3, http4s, Cats Effect, Doobie, Circe, Ciris, PostgreSQL, Doobie (functional JDBC), Liquibase, REST, JSON, Circe, codecs, sbt.build, GitHub Actions, Docker, Docker Hub, Multi-stage builds

# Professional skills

SKILLS		EXPERIENCE IN YEARS	LAST USED
Programming languages	Java	3	2025
	SQL	3	2025
	.Net	2	2025
	JavaScript	2	2024
Backend	Spring	2	2025
	Spring Boot	2	2025
	Spring Security	1	2025
	Spring MVC	2	2025
	Spring Data	2	2025
	Spring AOP	2	2025
	Scala	1	2025
	JSON	3	2025
	XML	3	2025
	OpenAPI	1	2025
	Swagger	1	2025
	Hibernate	3	2025
	JPA	2	2025
	REST	2	2025
	WebSockets	1	2024
	Liquibase	1	2025
	Mapstruct	2	2025
	Lombok	3	2025
	JUnit	3	2025
	Mockito	2	2025
	Testcontainers	1	2025
	Keycloak	1	2025
	Maven	3	2024

SKILLS			
SKILLS		EXPERIENCE IN YEARS	LAST USED
	Gradle	1	2025
Databases	PostgreSQL	1	2025
	MySQL	3	2025
	MongoDB	1	2025
	Redis	2	2025
Event Streaming Platforms	Apache Kafka	3	2025
DevOps	Docker	2	2025
	Docker Compose	2	2025
	Kubernetes	1	2025
	Helm	1	2025
	Jenkins	1	2025
Cloud	Azure	1	2025
Frontend	React	2	2024
	Redux	1	2024
	Tailwind CSS	2	2024
Source control systems	Git	3	2025
	GitHub	2	2024
	GitLab	1	2025
Management systems	Jira	3	2025
	Confluence	1	2025