

Denys | Senior Developer, 15+ yrs exp. | English C1, Spanish B1, German A2

Candidates summary

Experienced developer with over 15 years in software development, lecturing, and training. Proficient in designing and implementing high-load, scalable, and resilient systems using modern Java frameworks, functional and reactive programming techniques, and robust DevOps practices. Brings extensive theoretical and practical computer science expertise along with strong leadership, mentoring, and problem-solving skills.

Skills

- Programming Languages & Frameworks
- Java (Core, Spring Boot, Spring Cloud, Spring Integration, Spring Data, Hibernate, Lombok, JMH, Async-profiler, Maven, Gradle, Jacoco), Kotlin, Python (Django, FastAPI, PyTorch, Scikit-learn, TensorFlow, Pandas, PromptFlow), JavaScript (React, Vue, D3, Vite, WebPack, Node), Haskell (Stack, Cabal, Yesod)
- Databases & Storage
- SQL (PostgreSQL), NoSQL (MongoDB, Redis), Kafka, RabbitMQ
- DevOps & Infrastructure
- Docker, Kubernetes, Prometheus, Jenkins, GitHub, Nexus, Terraform, Helm
- Monitoring & Logging
- Instana, Splunk, FluentD, Grafana
- Architectural & Design Patterns
- Clean Architecture, Hexagonal Architecture, Modularization, SOLID, DRY, SOA, ESB, TDD, DDD
- Protocols & APIs
- REST, gRPC, GraphQL, Protobuf, WebSockets, Rsocket, Swagger/OpenAPI
- Testing & Quality Assurance
- JUnit, Mockito, WireMock, contract/component testing, integration testing
- Soft Skills & Communication
- Mentoring, technical documentation, knowledge sharing, team leadership

Projects

TOBi Projects [Vodafone]

Development of a suite of advanced telecommunications solutions including a chatbot, generative AI capabilities, and telemetry systems. The project focused on:- Creating high-load microservices for multi-market telecommunications applications with scalability and resilience.- Introducing architectural improvements such as deep refactoring and migration to a reactive stack to boost throughput.- Advanced profiling, GC tuning, and optimizing K8s Pod resource usage.- Designing and implementing distributed locks, synchronization mechanisms, and

orchestration strategies for high availability.- Migrating to Java 21 to leverage new language features and performance enhancements.- Comprehensive testing with contract, component, and system tests.

Used Technologies and Tools:

Java (Core, Java 21), Kotlin, Python; Spring Boot, Spring Cloud, Spring Data, Spring Security, WebFlux; MongoDB, Redis; Azure OpenAI, PromptFlow; REST, gRPC, WebSockets; Kafka, JMS; FluentD, Instana, Splunk, Prometheus, Grafana; Maven, Jenkins, GitLab CI/CD, Nexus; Docker, Kubernetes; OAuth2, JWT; Terraform, Helm.

CRM System of City Scale [iSolutions.IO]

Development of a robust CRM system designed to aggregate data from various city infrastructure sources. Responsibilities included:- Building microservices and asynchronous streaming services.- Developing transactional APIs for financial operations with enhanced security (JWT, OAuth, OTP-based).- Implementing distributed and asynchronous service communication.

Used Technologies and Tools:

Spring Boot, Spring Data JPA & JDBC, Spring Cloud; RabbitMQ, Kafka, WebSockets; PostgreSQL, Redis; gRPC.

BPM Platform for Volunteer Organization [Legal Associations]

Creation of a BPM platform to support and streamline processes for a volunteer organization. The project required full stack development and DevOps practices, focusing on:- End-to-end development covering both frontend and backend components.- Integrating security and real-time communication functionalities.

Used Technologies and Tools:

Spring Boot, Spring Security, Spring Data; WebSockets; PostgreSQL; Nginx, Docker, Redis.

Distributed Industrial Forecasting System “SiForeca” [Institute of Industrial Economic NAS of Ukraine]

Design and development of a distributed forecasting system to facilitate industrial predictions. Core responsibilities involved:- Full stack development and DevOps for a scalable and resilient system.- Implementing data streaming and secure communication with JWT and Keycloak.- Integrating machine learning components for enhanced forecasting using Python libraries.

Used Technologies and Tools:

Spring Boot, Spring Data, Kafka; Spring Security, JWT, Keycloak; Vue; PostgreSQL, Redis, MongoDB; Python3, Scikit-learn; Docker.

Cryptocurrency Exchange Platform [Exrates.me]

Development of financial transactional services for a cryptocurrency exchange platform. Key contributions included:- Creating REST services and optimizing SQL queries for performance.- Building and maintaining PostgreSQL storage solutions.

Used Technologies and Tools:

Spring Security, Spring Boot, Spring JDBC; WebSockets; PostgreSQL, Swagger; MongoDB.

School Grade Book [Department of Education of Kiev]

Development of a comprehensive school grade book system to manage educational records.

Responsibilities covered full stack development and DevOps integration, with focus on:-

Designing a system that integrated educational data with robust user interfaces.- Ensuring reliable performance and security in a production environment.

Used Technologies and Tools:

Java, Spring; JavaScript, Angular; Docker.

Jobs

Java Senior at Vodafone (04/2022 - Present)

Developed high-load microservices for multi-market telecommunications applications. Worked on TOBi projects including chatbot and generative AI solutions, OpenAI integration, telemetry systems, anonymization framework, and tailor-suited infrastructure solutions for monitoring and load-balancing.

- Responsibilities included architectural improvements with deep refactoring and a migration to a reactive stack to enhance throughput and efficiency; advanced profiling, GC tuning, and memory optimization; designing and implementing distributed locks, synchronization mechanisms, and orchestration strategies for ensuring high availability and fault tolerance; and comprehensive testing with contract, component, and system tests.

- Key contributions include leading the reactive stack migration, designing a high-performance distributed lock system, optimizing core algorithms, developing custom Maven plugins and profiling tools, creating a reactive anonymization microservice for GDPR compliance, building real-time monitoring and telemetry microservices, and implementing an API gateway for load balancing and failover handling.

- Used technologies: Java (Core, Java 21), Kotlin, Python, Spring Boot, Spring Cloud, Spring Data, WebFlux, MongoDB, Redis, Kafka, JMS, REST, gRPC, WebSockets, FluentD, Instana, Splunk, Prometheus, Grafana, Maven, Jenkins, GitLab CI/CD, Nexus, Docker, Kubernetes, OAuth2, JWT, Terraform, Helm.

Java Senior at iSolutions.IO (10/2021 - 04/2022)

Contributed to a CRM system designed for city-scale operations by aggregating data from various city infrastructure sources.

- Responsibilities included developing microservices and asynchronous streaming APIs for a financial transactional platform, ensuring security through JWT, OAuth, and OTP based mechanisms, and building distributed asynchronous services.

- Used technologies: Spring Boot, Spring Data JPA & JDBC, Spring Cloud, RabbitMQ, Kafka,

WebSockets, PostgreSQL, Redis, gRPC.

Architect, Senior (Java, JS) at Legal Associations (02/2020 - 10/2021)

Worked on a BPM platform for a volunteer organization.

- Responsibilities included full stack development and DevOps support to build a robust and scalable platform.
- Used technologies: Spring Boot, Spring Security, Spring Data, WebSockets, PostgreSQL, Nginx, Docker, Redis.

Architect, Senior (Java, Python, JS) at Institute of Industrial Economic NAS of Ukraine (09/2019 - 02/2020)

Led the development of the Distributed Industrial Forecasting System “SiForeca”.

- Responsibilities included full stack development and DevOps practices, ensuring a seamless integration of various system components.
- Used technologies: Spring Boot, Spring Data, Kafka, Spring Security, JWT, KeyCloak, Vue, PostgreSQL, Redis, Python3, Scikit-learn, MongoDB, Docker.

Middle Java at Exrates.me (11/2018 - 09/2019)

Developed a Cryptocurrency Exchange Platform focused on financial transactional services.

- Responsibilities included implementing REST services, building and optimizing SQL queries, and ensuring robust financial transaction processing.
- Used technologies: Spring Security, Spring Boot, Spring JDBC, WebSockets, PostgreSQL, Swagger, MongoDB.

Architect, Middle (Java, Hibernate, PostgreSQL, JS, Angular) at Department of Education of Kiev (01/2015 - 11/2018)

Worked on the development of a School Grade Book system.

- Responsibilities encompassed full stack development and DevOps support to deliver a user-friendly and efficient educational platform.
- Used technologies: Java, Spring, JavaScript, Angular, Docker.

Certifications

Education

- Donetsk State University (1990–1995) – Engineer Technologist
- Institute of Industrial Economic (1995–1999) – PhD Economics

Language Skills

- English: C1
- Spanish: B1

- German A2

Additional information

Family

Married, 2 children.

Hobbies

Enjoys literature and sports.