

ANASTASIA KORYTKO

SOFTWARE DEVELOPER



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🌐 <https://github.com/AnastasiaKorytko>

SKILLS

- Languages: Java, C++ (Qt, Inline Assembly)
- Developer Tools: IntelliJ IDEA, Visual Studio, Git, GitHub, Docker, Maven
- Databases & Caching: PostgreSQL, Redis
- Frameworks: Spring Boot, Spring Data JPA (Hibernate)
- Mathematics: Advanced Mathematical Analysis, Linear Algebra, Discrete Mathematics

EDUCATION

Belarusian State University
Faculty of Applied Mathematics
and Computer Science
Speciality: Applied Mathematics

LANGUAGES

- English (B1)
- Russian (Native)
- Belarusian (Native)

PROFILE

Java/C++ developer with a solid foundation in algorithm design and computational logic. Possesses a strong analytical mindset and experience in developing both interactive desktop applications and server-side logic. Focused on transforming complex mathematical concepts into functional, optimized code and eager to solve non-trivial engineering problems within a professional development team.

EXPERIENCE

Trigonometric Function Visualizer

- C++, Qt (QPainter, QVector)
- Developed a high-performance GUI to visualize trigonometric functions (sin, cos, tan, ctg) using QPainterPath.
- Engineered an interactive viewport with real-time panning and zooming by overriding Qt event handlers.
- Implemented Signal-Slot based input validation and efficient data storage using QVector.

To-Do List RESTful API

- Built a robust Java-based REST API for task management with full CRUD support and JSON data exchange.
- Implemented high-performance data storage and caching by integrating PostgreSQL with Redis and Spring Data JPA.
- Secured the service with Spring Security and an API Gateway-style Rate Limiter (Bucket4j) to ensure resilience against traffic spikes.
- Managed asynchronous messaging with RabbitMQ and full infrastructure containerization using Docker and Docker Compose.

ACHIEVEMENTS

Multiple-time participant and winner of school-level mathematical competitions focused on logic and problem-solving. One of the recent awards: 3rd-degree diploma in the District Mathematical Olympiad (2023/2024).