

Alena Denisova

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EDUCATION

ITMO University

Bachelor in Science of Software Engineering and Computer Systems

Saint Petersburg, Russia

Sep. 2023 – Present

PROJECTS

Authentication Server | *Java, Spring Boot, JWT, PostgreSQL*

Jan. 2025

- Developed a secure authentication server using Java and Spring Boot
- Integrated JWT-based authentication, including token generation, validation, and expiration handling
- Implemented token refresh mechanism using access and refresh tokens for seamless user sessions
- Designed a robust authorization system with role-based access control (e.g., USER, ADMIN) to restrict endpoint access

Interactive Graph Validation Application | *Java EE, React + Redux, TypeScript, PostgreSQL*

Dec. 2024

- Developed a client-server application enabling users to interact with a graph-based area visualization through coordinate inputs or direct clicks on the plot
- Secured user data with JWT tokens for authentication and session management

Client-Server Application | *TornadoFX, Kotlin, PostgreSQL*

May 2024

- Developed full-stack application for user interaction with collection of objects through TornadoFX framework linked by TCP connection with server which implements coroutines and database storage
- Configured CI/CD on github repository for build and deploy to remote server
- Structured the application to handle multiple concurrent connections with efficient coroutine-based server logic
- Designed a responsive frontend using React, Redux, and TypeScript for state management and a seamless user experience

TECHNICAL SKILLS

Languages: Java, Kotlin, TypeScript, SQL

Frameworks: Spring, React, TornadoFX

Developer Tools: Git, Docker, CI/CD

Technologies: JWT, Git