

Alena Denisova

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EDUCATION

ITMO University

Bachelor in Science of Software Engineering and Computer Systems

Saint Petersburg, Russia

Sep. 2023 – Present

Yandex Summer Schools

School of Backend Development (Java)

Saint Petersburg, Russia

Jun. 2025 - Aug. 2025

PROJECTS

Advertising Agency Management Platform | *Java, Spring Boot, PostgreSQL, Liquibase, Kafka* Aug. 2025

- Developed a backend service for managing advertising agencies, enabling employees to issue access rights, track campaigns, monitor statistics, and receive notifications
- Implemented authentication and authorization using Spring Security with JWT-based session management and custom filter chains
- Designed project architecture and database schema from scratch, including Liquibase migrations, indexes, and triggers
- Built role-based access control system and integrated inter-service communication via Kafka for email notifications

Authentication Server | *Java, Spring Boot, OAuth, JWT, PostgreSQL* Jan. 2025

- Developed a secure authentication server using Java and Spring Boot
- Developed authorization store motivated by Keycloak with OAuth API for generation access tokens and exchanging them to authentication principals
- Integrated session management with role mappings
- OAuth 2.0 was implemented including refresh tokens and token expiration

Animated User Interaction 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 | *Kotlin, TornadoFX, 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, Kafka

Technologies: JWT, Git, OAuth 2.0, Selenium, Liquibase