

# Alena Denisova

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## EDUCATION

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### ITMO University

*Bachelor in Science of Software Engineering and Computer Systems*

Saint Petersburg, Russia

*Sep. 2023 – Present*

## PROJECTS

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### 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

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**Languages:** Java, Kotlin, TypeScript, SQL

**Frameworks:** Spring, React, TornadoFX

**Developer Tools:** Git, Docker, CI/CD

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