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Education

2022 - 2025

Tallinn University of Technology
Cyber Security Engineering, Bachelor

2019 - 2021

IT Academy STEP
Administration and Programming

Tech Skills

- Linux & Utilities
- Java
- SQL
- Git
- Kafka
- Syslog
- Grafana Stack & Prometheus
- Networking
- Ansible

Soft Skills

- Cooperative
- Committed
- Reliable
- Energetic

Languages

English - Advanced

Ukrainian - Native

Russian - Native

Nazar Zhuhan

Java Developer

I am a passionate and dedicated Java learner, driven by a strong desire to apply my knowledge in real-world scenarios. With hands-on experience in the Spring Java Framework, I have developed the ability to work both independently and collaboratively in team environments.
Eager to embrace new challenges, I am continuously seeking opportunities to grow and expand my expertise. I'm excited to contribute to projects where I can learn, adapt, and make a meaningful impact. Please explore my ***portfolio*** to see examples of my work.

Practical Experience

PenTest Intern at Hacktify (15 Feb, 2024 - 15 March, 2024)

During my internship, I focused on exploring and exploiting various web application vulnerabilities to enhance security measures. This involved identifying and mitigating risks, as well as documenting findings in detailed penetration testing (PenTest) reports. Vulnerability Assessment: Conducted thorough assessments to identify common vulnerabilities, including: Clickjacking, XSS, HTML Injection, IDOR, SQL Injection, CSRF, SSRF.

Project Experience

Order Service - Spring Boot Microservice Development

Spring, Docker, Kafka, Grafana Stack

As part of a distributed system, I developed and maintained an Order Service using Spring Boot, focusing on robust order management. This microservice integrates seamlessly with various system components to provide a scalable solution for processing orders.

- Microservices Architecture: Implemented both synchronous and asynchronous communication patterns using Kafka for messaging and Resilience4j for circuit breaking, ensuring high availability and resilience.
- Observability and Monitoring: Deployed a comprehensive observability stack (Grafana, Prometheus, Tempo, Loki) for monitoring, tracing, and centralized logging, with auto-provisioned configuration for seamless startup.
- Service Discovery and API Gateway: Utilized Eureka for service discovery and an API Gateway to handle cross-cutting concerns such as security, load balancing, and request routing.
- Security: Integrated Keycloak for Single Sign-On (SSO) to secure access to services, ensuring compliance with security standards.
- Testing Strategy: Designed and implemented a layered testing approach, including slice JUnit tests for the presentation layer and integration tests using Testcontainers, to validate service reliability in realistic environments.
- Containerization and Deployment: Containerized the application using Docker, facilitating consistent deployment across environments.

This project exemplifies my ability to design, develop, and maintain scalable microservices with a strong focus on observability, security, and reliability in a cloud-native environment.

Project Experience

Typing Test Application - Java Console Application Development

Java, Lanterna, HSQLDB

Developed a Java-based console application that tests and improves typing speed and accuracy, complete with user authentication, statistics tracking, and persistent data storage. The application leverages HSQLDB for managing user data and test results, allowing users to track their performance over time.

- User Interface & Experience: Built a text-based user interface using the Lanterna library, facilitating user interactions such as logging in, performing typing tests, and viewing statistics directly in the console. Managed real-time screen updates to display user input and test results during typing exercises.
- Multithreaded Processing: Utilized multithreading to handle background tasks, ensuring smooth and responsive user interaction. This includes real-time screen refreshes and processing of typing test results without interruptions.
- Data Management: Designed SQL schemas and implemented functions for storing and retrieving user data and test statistics. Utilized HSQLDB for efficient data storage and retrieval, ensuring persistent tracking of user performance.
- CSV Export & Analysis: Enabled users to export their typing test results to CSV files, facilitating further analysis using external tools like Plotly.

Monitoring System

Java, Lanterna

Developed a real-time sensor monitoring system in Java, simulating and displaying temperature data from various sensors. The application leverages multithreading for data simulation and the Lanterna library for a text-based GUI.

CashCards API

Spring, MySQL, FlyWay, Docker

Implemented a robust Restful API project "CashCards" utilizing Java Spring, focused on secure financial transactions. Applied Test-Driven Development (TDD) principles to ensure code reliability and quality. Managed database version control with Flyway migrations and integrated MySQL for efficient data handling. Designed and enforced role-based authentication and authorization mechanisms to safeguard user information and ensure proper access control. Emphasized comprehensive error handling to enhance system stability and user experience.

JWT Authentication&Authorization

Spring, MySQL, Redis

Implemented a back-end system with robust authentication and authorization features. The project uses a stateless security model, with registration and login APIs based on JWT, incorporating proper configuration and revocation mechanisms to ensure secure user authentication.

CipherNotes

Spring, H2, Thymeleaf

Developed a responsive website that tracks users' Caesar/Vigenere data in a dictionary format with a strong emphasis on security. The project explores full stack development and involves creating custom functionality for personal use.