

# Iuliia Shtal

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## SUMMARY

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Java Software Engineer with 4+ years of backend development experience in FinTech and application security. Skilled in Java, Spring Boot, microservices, and secure software development. Strong background integrating Static Application Security Testing (SAST), Dynamic Application Security Testing (DAST), and Software Composition Analysis (SCA) tools, optimizing data workflows, and building reliable backend services. Currently pursuing an M.Sc. in Applied Computer Science at Fulda University. Open to remote, hybrid or on-site software engineering student roles in the Frankfurt area.

## EDUCATION

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2024–present    M.Sc. Global Software Development — **Hochschule Fulda**  
2015–2019      B.Sc. Computer Science — **Moscow Power Engineering Institute** (GPA: 1.2)

## WORK EXPERIENCE

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- Middle Software Engineer** (*PJSC Sberbank of Russia, Moscow*)

Jan 2022 – Sep 2024

  - Built vulnerability-analytics platform used by 100+ internal systems by developing Java/Spring Boot microservices and integrating SAST/DAST/SCA tools.
  - Improved report generation speed by 30–40% through PL/SQL optimization and workflow refactoring.
  - Increased accuracy of security analysis by 35% through the design of a dedicated SAST-processing microservice that consolidates data from 5+ scanners.
  - Improved deployment reliability by 40% and reduced incidents by 20% via contributing to CI/CD automation (Jenkins/Maven).
  - Developed REST APIs and collaborated on architecture reviews and Agile team ceremonies.
- Junior Software Engineer** (*PJSC Sberbank of Russia, Moscow*)

May 2020 – Jan 2022

  - Delivered initial version of internal security-automation platform adopted by 50+ services.
  - Reduced manual vulnerability review time by 50% via automated SAST data-processing modules.
  - Enhanced detection accuracy by 10–15% via improving filtering and reporting logic.
  - Built REST APIs, PostgreSQL data models, and contributed to CI/CD processes.
- Junior Developer** (*Raiffeisen Bank Russia, Moscow*)

Jul 2019 – Nov 2019

  - Developed Data WareHouse (DWH) components during internship program, including ETL workflows and analytical SQL modules.
  - Created and optimized Oracle SQL queries and participated in Agile team practices.

## SKILLS

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Programming	Java SE/EE, Spring Framework (Spring Boot, Spring Security, Spring Data), RESTful APIs, Microservices Architecture, JavaScript
Security	SAST, SCA, DAST, Vulnerability Analysis, Secure Development Practices
Databases	Relational Databases (PostgreSQL, Oracle), Data Normalization, SQL Query Optimization, JSON Processing, Data Mapping and Migration
DevOps	Git, CI/CD (Jenkins/GitLab), Docker, Maven/Gradle, Agile/Scrum

## PROJECTS

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### **Change Data Capture Analytics System** (IETEC GmbH Medical Equipment Manufacturing and Hochschule Fulda — 2025)

Developed a backend data-service architecture to support a Change Data Capture (CDC) analytics system for structured medical datasets. The original data contained large JSON entities that were difficult to query and analyze efficiently. The project focused on redesigning the data model and implementing automated mapping processes to optimize performance and enable scalable analytics. Achieved significant reduction in data processing time for analytical queries. Enabled scalable, efficient change data capture for large datasets. Delivered a maintainable backend architecture ready for further system integration and analytical extensions.

### **Web Shop Project** (Hochschule Fulda — 2024-2025)

[Link to GitHub](#)

Developed full-stack web shop application with Java backend and Svelte frontend, implementing user authentication, product catalog management, inventory tracking, and payment gateway integration, while ensuring responsive design and ability to deploy to cloud platform for production accessibility.

### **Application Security Aggregator** (Sberbank — 2020-2024)

Designed and implemented enterprise-wide automated security testing microservice that integrated multiple security scanning tools (SAST, SCA, DAST) to analyze application code and dependencies. The system automated vulnerability detection, aggregated results from independent security tools, and generated comprehensive compliance reports, significantly improving security posture and reducing manual review overhead.

### **Analytical Data Warehouse Solutions** (Raiffeisenbank — 2019)

Developed functional components of the corporate data warehouse as part of the Raiffeisen DWH School internship program. Built and optimized SQL scripts for data processing and ETL workflows, creating data marts, and preparing analytical reports for internal business teams.

## LANGUAGES

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English (Professional) — German (A1–A2) — Russian (Native)

## CERTIFICATIONS

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- IBM Certified Solution Designer – Rational Functional Tester for Java
- Microservice Architecture (Advanced Training)
- Secure Development Practices
- IELTS — Professional Working Proficiency