

Karim Karimov

Software Engineer

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Summary

Software engineer with 3 years building test automation and load-testing infrastructure for backend and AI systems at Sberbank-Service, the technology subsidiary of Russia's largest bank. Load-tested production AI inference platforms and built automated coverage for an MLOps deployment and monitoring system. BSc in Information Security; currently completing a dual master's (HSE, Russia / UNICAMP, Brazil) with a thesis on large language models for predictive threat management. Building an LLM-assisted vulnerability triage tool that runs entirely on-device. Looking for engineering work where reliability, security and machine learning systems meet.

Work Experience

Sberbank-Service	Moscow, Russia
Software Engineer	Jun 2023 – Jul 2026
• Built and maintained automated test suites in TypeScript, Jest and Appium across web, mobile and API layers for five production products, replacing manual regression passes and shortening the release verification cycle. • Designed and ran load-testing scenarios for backend and AI inference platforms using Locust and Python, validating behaviour under sustained concurrent load and surfacing performance bottlenecks before release. • Integrated the automated suite into GitLab CI so regressions were caught on every merge rather than during pre-release testing. • Instrumented services with Grafana and the ELK stack to trace failures across distributed components in production. • Validated data integrity across production PostgreSQL databases supporting core banking workflows in a regulated financial environment.	

Education

University of Campinas (UNICAMP)	Master
Business Administration	Campinas, São Paulo, Brazil · Aug 2026 – expected 2027
Dual-degree exchange program with NRU HSE. Master's thesis: <i>From Reactive to Proactive Cybersecurity: The Role of Generative AI and Large Language Models in Predictive Threat Management</i> · Advisor: Izabela S. Rampasso	
National Research University "Higher School of Economics"	Master
Science, Technology and Innovation Management and Policy	
Moscow, Russia · Sep 2025 – expected 2027	
National Research University "Higher School of Economics"	Bachelor
Information Security	Moscow, Russia · Sep 2021 – Jul 2025

Projects

AI Pentest Tool

Apr 2026 – Present

Orchestrates seven open-source scanners (Nmap, Nuclei, Nikto, Gobuster, testssl.sh, subfinder, HTTP security headers) and correlates their output with a locally hosted LLM into a deduplicated report with CVSS 3.1 vectors, OWASP Top 10 and MITRE ATT&CK mapping, and concrete remediation steps. Runs fully on-device by default, so scan data never leaves the operator's machine. Python, Ollama, pytest.

<https://github.com/mirakky/ai-pentest>

MLOps Execution and Monitoring System

Jan 2025 – May 2025

Automated API and web-interface testing for a platform used to deploy and monitor production ML models.

<https://cabinet.miem.hse.ru/project/2146/0/passport>

Systems and Networks Administration – E-Learning Platform

Nov 2024 – May 2025

Authored 20+ laboratory assignments and built the platform's web interface.

<https://cabinet.miem.hse.ru/project/1880/0/passport>

Web Attack Detection with CNN-BiLSTM

Jan 2023 – Mar 2023

Reproduced a CNN-BiLSTM intrusion detection architecture on CIC-IDS2017 flow data and benchmarked it against a Random Forest baseline, which outperformed it on recall and F1.

<https://github.com/mirakky/web-attack-detection-cnn-bilstm>

Cryptosystems in Python

Dec 2022

Implementations of classical and modern cryptographic primitives, built to study their failure modes.

<https://github.com/mirakky/Cryptography-Tasks>

Publications

Public Perception of Innovation – Good for Society or Made by the Devil?

Aug 2026

The Social Life of Innovation, HSE Basic Research Program Working Papers, WP BRP 130/STI/2026, pp. 70–75

Authored chapter in an edited collection with contributors from HSE, Tsinghua, BUPT and UNICAMP. Argues for literacy and oversight, not resistance, as the response to technological harm.

<https://doi.org/10.2139/ssrn.7275238>

Skills

Programming Languages TypeScript, Python, C++, SQL

Security OWASP Top 10, MITRE ATT&CK, CVSS 3.1, Nmap, Nuclei, Nikto, Gobuster, testssl.sh, subfinder

ML TensorFlow/Keras, scikit-learn, pandas, NumPy, CNN/BiLSTM, imbalanced-data evaluation

Testing Jest, Appium, Locust, REST API testing, Playwright, Cypress, Selenium, Pytest

Infrastructure Docker, GitLab CI, PostgreSQL, Grafana, ELK, Git, Linux/Bash

Languages

Russian
Native



English
C1; TOEFL scheduled Oct 2026



Portuguese
A2



German
A2

