

Tigran MANASYAN

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Versatile Java/Kotlin Software Engineer with strong fundamental knowledge of Computer Science. Passionate about distributed systems and Big Data related stuff. Enjoy maintaining high standards for written code, including proper testing, documentation, and production support. Constantly try something new in development and dive deep into new frameworks and languages. Easily connect with others and quickly find common ground.

EXPERIENCE

- Sep 2023
Present

Software Engineer, ARENADATA
Involved in the development of the [Arenadata Hadoop](#) and [Arenadata Streaming](#) - distributions of Hadoop and Kafka, that include both open-source components and proprietary solutions for managing them.
 - Solely implemented dozens of features for the legacy-like [Intel Smart Storage Manager for HDFS](#), bringing it to a production-ready state after a long process of bug fixes and performance improvements.
 - Developed HDFS tiered storage for Kafka based on [KIP-405](#).
 - Enhanced a bunch of connectors for Spark, made performance optimizations for specific customer cases.
 - Made several contributions to Hadoop ecosystem open-source repositories.

Java Scala HDFS Kafka Spark Hive Kyuubi Docker
- Nov 2021
Sep 2023

Software Engineer, HUAWEI
Developed the internal fork of Apache Flink - a distributed stream-processing engine for stateful computations over unbounded and bounded data streams.
 - Developed several optimizations for external systems connectors, including batch lookup support, that increased the throughput of customers' jobs up to 10 times.
 - Enhanced the Flink Complex Event Processing library by implementing a dynamic pattern reloading feature.
 - Expanded the capabilities of Flink SQL window operators by enabling the passing of late data to a predefined sink by utilizing SQL hints.
 - Made several contributions to Flink and related open-source repositories.

Java Scala Apache Flink Kafka Redis Apache Calcite Debezium Docker
- Feb 2021
Nov 2021

Software Engineer, TRUE ENGINEERING
Participated in 2 projects : internal implementation of feature toggles library and air cargo management system.
 - Successfully deployed the feature flag library for over 5 company projects and added employee authentication via the SAML SSO server.
 - Developed and significantly optimized existing business processes in the Camunda Platform.
 - Completed the full integration process of our cargo management system with two large Russian market-places.

Java Spring Boot Camunda Kafka Docker Kubernetes
- Aug 2020
Jan 2021

Junior Software Engineer, XORED
Developed the [Network Service Mesh](#), a novel open-source approach for solving complicated L2/L3 use cases in Kubernetes.
 - Autonomously developed various modules of the system, including a DHCP-like service for aggregating IP addresses from various sources and other low-level networking parts.
 - Explored potential methods for integrating OpenTracing and OpenTelemetry into an existing system and successfully completed the integration process.

Golang gRPC Docker Kubernetes Jaeger
- Feb 2020
Aug 2020

Java Software Engineer Intern, CFT
Development of the backend for the internal TeamCFT system that was later integrated into the CFT's hiring process
 - Designed the server-side API in conjunction with the backend and Android teams.
 - Developed and refactored various service modules, including a security module (sign up with email confirmation, authentication via jwt and refresh tokens, role model, etc.)

Java Spring Boot Flyway PostgreSQL

EDUCATION

- 2021-2023 **Novosibirsk State University**
Master's degree, Computer Science
- 2017-2021 **Novosibirsk State University**
Bachelor's degree, Computer Science

LANGUAGES

- English - **B2**
- Russian - **Native**

PROJECTS

RELOHOME

2023 - 2024

 github.com/tigrulya-exe/ReloHome

Extensible system that sends information about new apartment rental offers via Telegram.

[Kotlin](#) [Telegram Bot](#) [Ktor Server](#) [Kafka](#) [gRPC](#)

KCACHE

2020 - 2021

 github.com/tigrulya-exe/kcache

JVM library for server-side HTTP-cache validation boosting.

[Kotlin](#) [HTTP-cache validation](#) [Spring Boot](#) [AspectJ](#)

CONVOYEUR

2021

 github.com/tigrulya-exe/convoyeur

Simple framework for data pipelines processing.

[Kotlin](#) [Coroutines](#) [Data pipelines](#)

TERRAFORM

2022 - 2023

 github.com/tigrulya-exe/terraform

QGIS plugin with popular topographic correction algorithms and various methods of their evaluation.

[Python](#) [QGIS](#) [Image processing](#) [Topographic correction](#)