Monakhov Daniil

Personal Information

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⌨: Kvel4

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in: Daniil Monakhov

Work experience

Devexperts   **2022 Feb - Current time**

Exchange matching engine team. Implemented Api classes generator over SBE schema. Generated about 35-40 thousand lines of code, including flyweigh interfaces, builder interfaces and implementation classes. Generator also supports additional interfaces plugging in via the configuration file.

Relevant areas: Java, Code generation, Highload systems

Education

Bachelor Degree. Computer science major   **2019 - 2023**

ITMO University. GPA 4.1/5

HSE Lyceum   **2017 - 2019**

Mathematics and Informatics specialization

Technical skills

Proficient

Java, Kotlin

Advanced

Python, Networks, Concurrency and Distributed enjoyer

Experience with

C++, JS, Bash, Gradle, Haskell

Projects and achievements

2021

Translation Methods
Generates parser from provided LL1 grammar. Detailed description exposed in the github repository.
Stack: Java, Kotlin, ANTLR, KotlinPoet, GraphViz

Distributed systems
Some distributed algorithms implementations. Including distributed mutex, diffusing dijkstra, consistent hashing and raft consensus algorithm
Stack: Kotlin

Parallel programming
Lots lock-free data structures and another concurrency concepts.
Stack: Kotlin

Haskell
A small functional language interpreted into haskell. Detailed description provided in the github repository.
Stack: Haskell, STL libraries

Previous

MRZ Decoder Hackathon second place

Information Technologies olympiad winner