Balakhnin Sergei

Software Engineer Contacts

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Work Experience

JetBrains, Qodana team.

Stack: Kotlin, Java, Static Analysis

Specialization: developer in core team of static analyzer tool.

Period: 7.2021 - 03.2022

Huawei, Programming Language team.

Stack: C/C++, research

Specialization: develop translator from Java to other language

Period: 10.2020 - 04.2021

Huawei, project - LLVM compiler.

Stack: C/C++, research

Specialization: develop profile guided optimization for clang compiler

Period: 06.2020 - 10.2020

Tinkoff internship, project - website kassir.ru.

Stack: Java, Kotlin, Spring Specialization: Backend-developer

Period: 06.2019 - 09.2019

Education

Bachelor's degree at Computer Science in ITMO.

GPA: 4.1 / 5

Specialisation: mathematics and Computer Science. ITMO is 79-th world university by CS based on "QS World University Ranking".

Key skills

• Programming languages.

Industry Experience: Kotlin, Java. Educational knowledge: Haskell, Go, C++, Python.

- Deep knowledges of algorithm and data structure.
- Theoretical and practical experience in multiprocessing programming.
- SQL.
- Professional English.
- Git experience.

Educational projects, achievements

• Bachelor's thesis. Work on active module identification problem in bioniformatics domain. Upgrade approach discribed in: Markov chain Monte Carlo for active module identification problem

My solution add support for another kind of input data (add support for metabolics networks).

Stack: R, C++ Project link: https://github.com/sergalb/mcmcRanking

• LALR-grammar parser's generator (subset ANTLR)

Stack: Kotlin, ANTLR

Project link: https://github.com/sergalb/ParserGenerator

• Utility for searching substring in directory (analogy to grep, with UI)

Stack: C++, QtCreator, Multithreading.

In this project, I managed to achieve a performance that exceeds grep (due to pre-calculation)

Project link: https://github.com/sergalb/cpp-third-term/tree/master/SubstringFinder

• Android apps

Stack: Kotlin, Multithreading, REST

Project link: https://github.com/sergalb/android-2019

• Haskell applications

Stack: Haskell, ghc

hw-2: Own file-system and base version system

hw-3: Atomic tasks on lenses, concurency, interpretor of JavaScript subset

https://github.com/sergalb/fp

• Factorizing big numbers with dixon's method

Stack: Kotlin, mapple, linear algebra implementation of *Dixon* https://github.com/sergalb/computer-algebra

- Prize-winning in math olympiads "Rosatom", "PhysTech", "OMMO", "Future researchers the future of science"
- 3 years volunteering on NERC ICPC final (semi-final of whole world programming competition)