KONSTANTIN NISHT

Software developer

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knisht

EXPERIENCE

Software developer JetBrains Research, HoTT team

July 2021 - Ongoing

♀ Saint Petersburg, Russia

- Supporting HoTT-based proof assistant Arend and the IntelliJ IDEA plugin for it.
- Implemented numerous refactorings and code insights for IntelliJ Arend. Enhanced AST in the language.

Software developer

JetBrains s.r.o., IntelliJ IDEA team

Sep 2019 - Ongoing

♀ Saint Petersburg, Russia

- Working in IntelliJ IDEA team, supporting plugin for Apache Groovy and Gradle buildscripts.
- Primarily focused on performance optimization of the flow typing and quality of type inference.

Software developer intern JetBrains s.r.o.

- Saint Petersburg, Russia
- Implemented type inference algorithm for Groovy type system.
- Developed integration with Java type ecosystem tools. Improved existing instruments that aimed to support programming languages with dynamic type system.
- Presented project to IntelliJ IDEA team.

EDUCATION

B.Sc. Applied Mathematics and Computer Science ITMO University

2017 - 2021

♀ Saint Petersburg, Russia

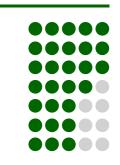
- Computer Technology Department
- GPA: 4.95/5.0
- Relevant courses: Algorithms and Data structures, Type theory, Discrete Mathematics, Parallel programming, Operating systems, Computer architecture, C++ language, Advanced Java, Mathematical analysis, Probability theory and Mathematical Statistics.

ABOUT ME

I am a curious and hardworking person that is interested in computer science, programming languages and type theories.

PROGRAMMING LANGUAGES

Kotlin Java Arend Haskell Coq Agda C++



TECHNOLOGIES

Git | Li

Linux

IntelliJ IDEA

Verified programming

LANGUAGES



Russian

Native



English

CEFR C1, IELTS 7.5/9



Chinese

Pre-intermediate

PROJECTS

- Term Rewriting Systems, formalization of this theory in Arend. The main result is a verified proof that a sum of linear confluential term rewriting systems is confluent itself.
- SLR(1) Parser Generator, written in Haskell.
- Ray tracing algorithm, implemented in Rust.