

# Kirill Timofeev

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## Work Experience

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|---|---|
| October 2017 – present<br>Software Developer<br>JetBrains<br>IntelliJ IDEA team | <b>Working on profilers support for IntelliJ based IDEs</b> <ul style="list-style-type: none"><li>○ Implemented state-of-the-art low-overhead sampling Java+Native profiler for Windows, gave a <a href="#">talk</a> about it</li><li>○ Designed from scratch and implemented the first production version of the <a href="#">JVM profiler subsystem</a></li><li>○ Implemented multiple product features and integrations with third-party tools</li><li>○ Developed platform API and UI components used by IntelliJ IDEA, <a href="#">CLion</a>, <a href="#">GoLand</a>, and others</li><li>○ Worked on different performance optimizations</li><li>○ Managed cross-department work on various tasks required for the project</li><li>○ Did code reviews and mentored colleagues on different topics</li><li>○ Hosted summer internship project, was involved in the hiring process</li></ul> <i>Technologies: Kotlin, Java, JVM Internals, JVMTI Agents, C++, Windows and POSIX APIs, Native Debugging, x86-64 Assembly</i> |
| June 2017 – September 2017<br>Software Developer<br>JetBrains<br>Kotlin team    | <b>Worked on debugger for Kotlin Coroutines</b> <ul style="list-style-type: none"><li>○ Did research and implemented a prototype of the debugger, consisting of two parts: bytecode transformer and IntelliJ IDEA plugin</li><li>○ The work leads to the release of the production version, implemented by the Kotlin Libraries team</li></ul> <i>Technologies: Kotlin, JVM, Bytecode Transformation, Gradle</i>  |
| July 2016 – October 2016<br>Software Developer Intern<br>Yandex                 | <b>Developed internal infrastructure services</b> <ul style="list-style-type: none"><li>○ Created Data Analysis System to unify data received from multiple sources</li></ul> <i>Technologies: Java + Spring; MySQL and MongoDB for web services; Python for data analysis</i>  |
| October 2015 – April 2016<br>Android Developer<br>Yandex.Money                  | <b>Developed Android application</b> <ul style="list-style-type: none"><li>○ Worked on the mobile app for the largest electronic payment service in Russia</li></ul> <i>Technologies: Java and Android SDK, Gradle</i>  |

## Conferences

- 2020    Joker (the largest Java conference in Russia) – [To make JVM profiler win\\_able](#) ([slides](#), [video](#), RU)
- 2021    Novosibirsk Java User Group – To make JVM profiler win\_able (RU)

## Education

ITMO University, M.Sc in Software Engineering  
ITMO University, B.Sc in Applied Mathematics and Informatics

## Skills and Technologies

**Expert in** Kotlin, Java, JVM internals, native debugging, POSIX and Windows systems programming  
**Experienced in** C++, C, x86-64 Assembly, Python, Gradle  
**Also worked with:** Android SDK, Spring, SQL, MongoDB, Scala, Haskell