

Tbilisi, Georgia  
Ready for relocate/remote

## ALEXANDER FROLOV

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### LANGUAGES AND TECHNOLOGIES

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- **Languages:** *Kotlin; Java; Python; C/C++*; Unix shell scripting; Intel x86 assembly; *SQL*.
- **Technologies:** *Kotlin Multiplatform; Kotlin Coroutines; Spring Boot; Ktor; React; Gradle; Kubernetes; GitHub Actions; reactive programming; multithreaded programming; network programming; POSIX API; Qt; Git; Docker*.
- **Native languages:** English (Advanced); Russian (Native).

### EMPLOYMENT

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Software Engineer	Huawei Research Institute	Oct. 2021 – Oct. 2023
<ul style="list-style-type: none"><li>• Developed static analysis benchmarking cloud Spring services and React frontend for them - <a href="#">SaveOurTool</a> (partially open-sourced).<ul style="list-style-type: none"><li>◦ Suggested, designed and implemented Spring service for static analysis tool demonstration (including pod orchestration), integrated it into Kubernetes cluster.</li><li>◦ Improved latency of demo service by 3.5x to make it possible to use as a preview tool.</li><li>◦ Managed cluster infrastructure, configured Kubernetes for new components, deployed the project into cluster.</li><li>◦ Implemented user roles and authorization.</li></ul></li><li>• Heavily contributed to Kotlin static analyzer and code fixer - <a href="#">diktat</a> (500+ stars on GitHub).</li><li>• Developed a Kotlin multiplatform library for launching applications and collecting their execution logs to be used by the demo service.</li><li>• Stack: <i>Kotlin Spring WebFlux, Kotlin Coroutines, Spring Security, Spring Data, Kubernetes, Kotlin React, webpack, Kotlin Native, Ktor, Gradle, MySQL, S3</i>.</li><li>• Stats: Hits of Code 95.5k in 18 months, TOP-1 additions in project, 320 PRs merged, opened 104 issues, 87 of which were resolved, drove weekly meetings, mentored an intern.</li></ul>		

### EDUCATION

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Moscow, Russia	Lomonosov Moscow State University	Sept. 2019 – June 2023
<ul style="list-style-type: none"><li>• Graduate of the Computational Mathematics and Cybernetics department, Computing Systems and Automation. GPA: 4.4.</li><li>• Developed an IoT app that is used for medical telemetry data collection and processing. Stack: <i>Kotlin Android, Jetpack Compose, Room, Ktor, MQTT, Bluetooth LE</i>.</li><li>• TL'd a team of 3 students, owned backend design, mentored a younger student.</li><li>• Thesis topic: <a href="#">Development of data collection application for simultaneous handling of multiple IoT (Internet of Things) devices: medical telemetry case study</a>. HoC: 56k.</li></ul>		

### PERSONAL PROJECTS

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- [spreadsheet](#) (2024). A customizable spreadsheet app supporting complex formulas, data management, dependency tracking, and clipboard operations. Stack: *Java, Swing, Gradle*.
  - [kotlin-js-preview](#) (2023-2024). IDEA plugin for Kotlin/React functional component preview. Stack: *Kotlin MPP, IntelliJ Plugin Platform SDK, Gradle*. Accepted to [JetBrains Marketplace](#).
  - [tiktaktoe](#) (2024). Classical online game over Ktor websockets with React-based web UI. Stack: *Kotlin, React, Ktor, Kotlin coroutines, Gradle*.
  - [handmade-spring](#) (2024) Spring-like tiny library with pure Java implementation that includes BeanPostProcessor, IoC, ApplicationContext, etc. Stack: *Java, Gradle*.
  - [Fractals](#) (2019-2023). Application which draws fractals in GUI. Has the ability to zoom. Written in four different languages: Java (*IntelliJ Idea, Swing*), C++ (*Qt, multithreading, Qt Creator*), C# (*.NET, MSVS*) and Kotlin (*IntelliJ Idea, Compose UI, Kotlin Coroutines*).
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