

Yerevan, Armenia  
Ready for relocate/remote

## ALEXANDER FROLOV

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[github.com/sanyavertolet](https://github.com/sanyavertolet)

### EMPLOYMENT

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<b>Junior Software Engineer</b>	<b>Huawei Research Institute</b>	<b>Oct. 2022 – Oct. 2023</b>
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- Worked on developing open-source static analysis benchmarking cloud Spring services and React frontend for them.
- Suggested, developed and implemented service for static analysis tool demonstration (including pod orchestration), integrated it into existing Kubernetes cluster.
- Managed cluster infrastructure, configured Kubernetes for new components, deployed the project into cluster.
- 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.
- Stack: *Kotlin Spring WebFlux, Spring Security, Spring Data, Kubernetes, Kotlin React, webpack, Kotlin Native, Ktor.*

<b>Software Engineer Intern</b>	<b>Huawei Research Institute</b>	<b>Oct. 2021 – Oct. 2022</b>
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- Fullstack developer of cloud services for software developers - [SaveOurTool](#).
- Worked on Kotlin static analysis tool - [diktat](#).

### EDUCATION

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<b>Moscow, Russia</b>	<b>Lomonosov Moscow State University</b>	<b>Sept. 2019 – June 2023</b>
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- Graduate of the Computational Mathematics and Cybernetics department, Computing Systems and Automation. GPA: 4.4.
- Developed an IoT app that is used for medical telemetry data collection and processing  
Stack: *Kotlin Android, Jetpack Compose, Room, ktor, MQTT, Bluetooth LE.*
- TL'd a team of 3 students, owned backend designing, mentored a younger student.
- Thesis topic: [Development of data collection application for simultaneous handling of multiple IoT \(Internet of Things\) devices: medical telemetry case study](#). HoC: 56k.

### TECHNICAL EXPERIENCE

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#### Personal Projects

- [kotlin-js-preview](#) (2023). IDEA plugin for Kotlin/React functional component preview.  
Stack: *Kotlin MPP, IntelliJ Plugin Platform SDK.*
- [teamvolikbot](#) (2022). Telegram bot for organizing and signing up for real-life volleyball games. Made for the local volleyball community (~60 people).  
Stack: *Python, SQLite, Telegram API, PyCharm.*
- [MGT](#) (2021). Web-server which solves a graph problem - finding the most vital node of the graph (performing special calculations with articulation points of a graph).  
Stack: *C++, Docker, POSIX API (sockets), VIM.*
- [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*).

### LANGUAGES AND TECHNOLOGIES

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- **Languages:** *Kotlin* (Proficient); *Python* (Proficient); *C/C++* (Proficient); *Java* (Prior Experience); *C# .NET* (Prior Experience); Unix shell scripting; Intel x86 assembly (*NASM, GAS*); *MySQL*.
  - **Platforms:** *IntelliJ Idea; Eclipse; Qt Creator; CLion; PyCharm; Jupyter Notebook; VIM.*
  - **Technologies:** *Kotlin Multiplatform; Kotlin Coroutines; Spring Boot; React; Kubernetes; GitHub Actions; reactive programming; multithreaded programming; network programming; POSIX API; Qt; Git; Docker.*
  - **Native languages:** English (Advanced); Russian (Native).