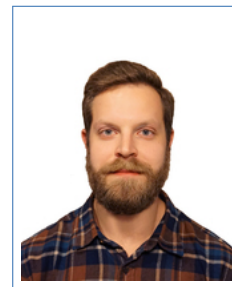


Aleksandr Polovtsev

Developer

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Experience

- May 2015 – **Senior Java developer**, *Genestack*, Saint-Petersburg, Russia.
Sep 2020 Development of a data management platform for biological data.
Responsibilities and achievements:
- Created an application for browsing customer data, order of magnitude faster than the previous prototype, later used as one of the selling points of the platform;
 - Was a technical lead of a small team working on integration with clients' internal systems which lead to a successful go-live on time;
 - Developed a prototype solution for indexing and fast retrieval of mutation data, which showed good performance and flexibility for business needs;
 - Performed basic team lead tasks like writing design documents with detailed subtasks, doing code review and managing one-on-one meetings with team members;
 - Participated in job interviews.
- Oct 2012 – **Full stack developer**, *Saint-Petersburg State Polytechnical University*, Saint-Petersburg, Russia.
May 2015
- Development of an enterprise information system using Django framework;
 - Development of a dynamic analysis tool based on program trace visualization using Clang API;
 - Development of a DSL translator for describing function semantics.

Skills

Programming languages

Proficient Java, Kotlin, Python, SQL
Familiar C++
Basic Bash

Platforms, frameworks and other technologies

Frameworks Spring, Spring Boot
Databases MySQL, Apache Solr, ClickHouse
and search engines
Testing JUnit, Mockito, Testcontainers, Pytest
Containers Docker, Docker Compose
VCS Git
Build Maven, Gradle
Systems

Education

2012 – 2014 **Master's Degree in Software Engineering**, *Department of Computer Systems and Software Engineering, Saint-Petersburg State Polytechnical University*, Saint-Petersburg, Russia, *magna cum laude*.

2008 – 2012 **Bachelor's Degree in Software Engineering**, *Department of Computer Systems and Software Engineering, Saint-Petersburg State Polytechnical University, Saint-Petersburg, Russia, magna cum laude.*

Master thesis

title *Instrumentation Environment for Program Analysis*

description Software system for program characteristics analysis and visualization based on language-independent metamodel. Developed prototype supported several visualization types (CFG view, UML class diagrams) and simple metric calculations for programs written in Java and C.

Languages

Russian Native

English Fluent

French Beginner

Personal interests

Sport Olympic weightlifting, running

Learning Learning something new through online courses at sites like Coursera or Udemy

Publications

Aleksandr Polovtcev, Tatyana Krikun, Tatyana Vert, Aleksey Zozulya, and Vladimir Itsykson. Visualization of parallel program execution for software behavior analysis and defect detection. In *CEE-SECR '14 Proceedings of the 10th Central and Eastern European Software Engineering Conference in Russia*, New York, NY, 2014. ACM.