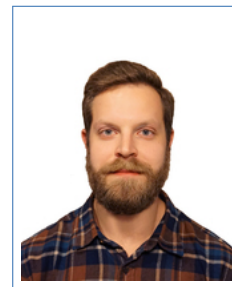# Aleksandr Polovtsev

Backend developer

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⊙ sashapolo
in aleksandr-polovtsev

Experience

May 2015 – Sep 2020
Senior Java developer, *Genestack*, Saint-Petersburg, Russia.
Development of a data management platform.
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;
- Maintained and improved a data ingestion pipeline into Apache Solr;
- Developed a spreadsheet application for working with metadata;
- Managed integration with clients' internal systems which lead to a successful go-live on time;
- 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 – May 2015
Full stack developer, *Saint-Petersburg State Polytechnical University*, Saint-Petersburg, Russia.
- 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
Familiar	C++, SQL
Basic	Bash

Platforms, frameworks and other technologies

Frameworks	Spring, Spring Boot
Databases and search engines	MySQL, Apache Solr, ClickHouse
Testing	Junit, Mockito, Testcontainers
VCS	Git
Build Systems	Maven, Gradle

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.