

# Alexander Polovtcev

Developer

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## EDUCATION

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

— 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.

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

— UNDERGRADUATE THESIS

title *Development of Hardware and Software Tools for Mobile Testing System*

description Development of some tools for an existing mobile system for testing uncommitted logic arrays including test loading hardware and GUI.

## EXPERIENCE

### RESEARCH & DEVELOPMENT

Sep 2014 – **Saint-Petersburg State Polytechnical University**

now *Development of enterprise information system.*  
Front-end developer.

Jan – Aug 2014 **Saint-Petersburg State Polytechnical University**

*Project on dynamic analysis tool based on program trace visualization.*  
Developer of program code instrumentation system.

Oct – Nov 2013 **Saint-Petersburg State Polytechnical University**

*Development of trace log analysis and visualization tool.*  
Developer.

Oct 2012 – **Saint-Petersburg State Polytechnical University**

Aug 2013 *Development of DSL translator for describing function semantics.*  
Developer.

## PERSONAL SKILLS

### Operating Systems

Linux, Windows

### Programming Languages

Proficient Java, C++

Familiar Python, C

Basic Bash, Scala, SML, Lisp, Erlang

### Platforms and Frameworks

Java SE, Java EE, Arquillian, JUnit, Django, ANTLR

### Tools

VCS Mercurial, Git

Build Systems Maven, Make

Databases PostgreSQL, Apache Derby, MongoDB

### Office

L<sup>A</sup>T<sub>E</sub>X, LibreOffice

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## LANGUAGE SKILLS

Russian Native

English Fluent

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## MISCELLANEOUS

Linkedin [ru.linkedin.com/pub/alexander-polovtcev/80/829/627/](https://ru.linkedin.com/pub/alexander-polovtcev/80/829/627/)

Twitter [https://twitter.com/sasha\\_polo](https://twitter.com/sasha_polo)

GitHub <https://github.com/Snowball1239>

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## PUBLICATIONS

### CONFERENCE TALKS

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