

# 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.

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## EXPERIENCE

### RESEARCH & DEVELOPMENT

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

now *Development of enterprise information system.*

Front-end developer. My responsibilities included business-process logic and Web UI development using Django.

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

*Project on dynamic analysis tool based on program trace visualization.*

Developer of program code instrumentation system based on Clang API.

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.

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## PERSONAL SKILLS

### Operating Systems

Linux, Windows

### Programming Languages

Proficient C++, Python, Java

Familiar C, Bash, SQL

Basic Scala, JavaScript, Lisp, Erlang

### **Platforms, Frameworks and Technologies**

Java SE, Java EE, Arquillian, JUnit, Django, ANTLR, HTML+CSS

### **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/](http://ru.linkedin.com/pub/alexander-polovtcev/80/829/627/)

HeadHunter <http://spb.hh.ru/resume/cb1143fdff022f58ed0039ed1f6f4a5a43484c>

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

BitBucket <https://bitbucket.org/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* // CEE-SECR '14 Proceedings of the 10th Central and Eastern European Software Engineering Conference in Russia // Article No. 24 // ACM New York, NY, USA ©2014 // ISBN: 978-1-4503-2889-0