Vladimir Kovalenko

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Work Experience

Oct 2016 – Current — PhD Candidate at Delft University of Technology, Delft, Netherlands

Software Engineering Research Group, department of Software Technology, faculty of Electrical Engineering, Mathematics, and Computer Science

Doing research on software development data analysis and its applications, with emphasis on code review process and tools.

Jun 2015 – Oct 2016 — Software Developer at JetBrains, St. Petersburg, Russia

Upsource team

Was responsible for design, prototyping and implementation of analytics features of Upsource, the code review tool.

Implemented and maintained the features through the whole stack from DB backend to web UI.

Introduced new data mining and visualization patterns to highlight the points of interest in codebases of large software systems.

Designed and implemented 3 new analytics reports introduced in Upsource releases 2.5 to 3.5.

Improved automatic reviewer recommendation accuracy and performance.

Designed and implemented a warning system for reviews of changesets with risky code ownership distributions.

Jul 2014 – Jun 2015 — Intern at JetBrains, St. Petersburg

Did research on software defect prediction.

Introduced a novel approach to the defect prediction problem, with emphasis on production applicability.

Designed and implemented a defect prediction tool making use of the approach.

Integrated the tool into the company's development environment and conducted the applicability examination.

Jan 2013 – Feb 2014 — Intern at Yandex, St. Petersburg

Implemented Selenium scenarios for regression testing of company's web services.

2009 – 2014 — Private tutor (self-employed)

Taught Mathematics, Informatics and Physics privately to high school students.

Led over 30 students to gaining sincere interest in the subject, desired scores on graduation exams, and olympiad awards.

Education

June 2015 — Master of Science in Applied Mathematics and Physics,
Nanotechnology Research and Education Centre of the Russian Academy of Sciences (the Academic University), St. Petersburg
Specialization: Software Engineering
Thesis: "Development of a software defect prediction tool" (in Russian)
Advisor: Galina Alperovich (JetBrains)
Short paper based on thesis work

June 2013 — Bachelor of Science in Physics, **St. Petersburg Polytechnic University**
Specialization: Astrophysics

June 2009 — **Lyceum "High School of Physics and Technology" (PTHS)**, St. Petersburg

Languages

English: Fluent
Russian: Native
French: *Un petit peu*
Dutch: *Een beetje*

Skills

Commercial software development:	Java, Kotlin, JavaScript, HTML/CSS
Technologies and frameworks:	JUnit, Spring, GWT, d3.js, Selenium, Protobuf, CI server plugin APIs (Jenkins/Hudson, TeamCity), static analysis tool APIs (FindBugs, PMD)
Comfortable with:	Python, C++, LaTeX, *nix shell scripting, R
Familiar with:	Haskell, Lisp
Soft skills:	Self-motivated and driven by result. Able to solve complex problems independently. Communicate efficiently. Have a team work experience. Perform consistently.

Interests and Activities

Research interests:	Human-centric evaluation of recommender systems, value analysis of tool features, mixed quantitative/qualitative methods, software team dynamics, developer onboarding process.
Other interests:	Programming, technology, behavioral science, knowledge discovery, data visualization, physics modeling algorithms, sound processing algorithms, computer vision, DIY electronics
Hobbies:	Playing music, long distance running, cross-country cycling