Yuriy Tymchuk

Research Assistant

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I'm a software engineer / computer scientist and a hacker in general who likes researching new ideas, developing solutions, and teaching.

I am focusing on software maintenance and evolution issues. I invest time in development of the tools that assist software engineers with their work.

Achievements

QualityAssistant: My software-quality tool with a live feedback is integrated into the latest version of Pharo IDE. Expected usage: 30 commercial companies, 20 universities (for teaching).

Employment

Universität Bern as Research Assistant

Jan 2016 - Present

Research on software quality and evolutionary monitoring. Maintenance of the group's git server. Assistance in teaching. I've invented a 3D visualization that allows detection of defects in software quality evolution.

Università della Svizzera Italiana as Doctoral Assistant

Oct 2013 - Dec 2015

Modeling of developer collaboration, based on the data mined from software repository. Research on code quality and code review, development of ViDI code review tool and QualityAssistant static analyzer. Assistance in teaching.

Innocode as *Software engineer*

Apr 2013 - Sep 2013

Pre-project research concerning web-application for leanbusiness.no. Development of Relink project in Ruby on Rails. Increased performance of the team by introducing git-flow strategy.

RMoD, Inria as Intern

Jan 2013 – Apr 2013

Research on AST metamodels. Development of FAST: a generic metamodel and symbol resolution algorithm.

InterLogic as *Software engineer*

Aug 2012 - Jan 2013

Development of a Java3D applet for ventilation system configuration with a backend in PHP and MySQL. I've developed a module in Scala which decreased the complexity by an order of magnitude in comparison with Java implementation.

Unikernel Team (freelance) as Founder/Leader

Mar 2010 - Aug 2012

Different websites made from scratch. Usually online shops, sometimes web apps with rich frontend.

Ukrainian Academic Research Network as System Administrator

Feb 2009 - Jul 2012

On call assistance, network administration, minor web development.

Technical Skills

Experienced: Pharo/Smalltalk, Ruby+Rails, Java, git, TDD, Software Maintainability

Familiar: HTML, CSS, JavaScript, Scala, Objective-C, Python, C++, Lisp, MySQL, MongoDB,

Mercurial, SVN

Education

Master of Science @ Ivan Franko National University of Lviv Specialization in Informatics	2012 – 2013
Bachelor of Science @ Ivan Franko National University of Lviv Specialization in Informatics	2008 – 2012
Highschool diploma @ Lviv Physics and Mathematics Lyceum Specialization in Physics and Mathematics	2006 – 2008
Member of MASU @ Minor Academy of Sciences of Ukraine "Whimsical Bride" - the graduation research project about statistics theory	2006 – 2008

Publications

conferences.

Code Review: Veni, ViDI, Vici, *Y. Tymchuk, A. Mocci, and M. Lanza*, In Proceedings of SANER'15 (22nd International Conference on Software Analysis, Evolution, and Reengineering), pp. 151–160, IEEE, 2015.

Collaboration in Open-source Projects: Myth or Reality?, *Y. Tymchuk, A. Mocci, and M. Lanza*, In Proceedings of MSR'14 (11th Working Conference on Mining Software Repositories), pp. 304–307, ACM, 2014.

formal demonstrations.

ViDI: The Visual Design Inspector, *Y. Tymchuk, A. Mocci, and M. Lanza*, In Proceedings of ICSE'15 (37th IEEE/ACM International Conference on Software Engineering), pp. 653–656, IEEE Press, 2015.

doctoral symposium.....

Treating Software Quality as a First-Class Entity, *Y. Tymchuk*, In Proceedings of ICSME'15 (31st International Conference on Software Maintenance and Evolution), to be published, IEEE, 2015.

workshops

What if Clippy Would Criticize Your Code?, Y. Tymchuk, In Proceedings of BENEVOL'15 (14th edition of the Belgian-Netherlands software evolution seminar), 2015.

Generic Name Resolution with Metamodels, Y. Tymchuk, B. Arezki, A. Etien, N. Anquetil, and S. Ducasse, In Proceedings of BENEVOL'13 (12th edition of the Belgian-Netherlands software evoLution seminar), 2013.

theses

Extending FAMIX metamodel to generate ASTs for Java and Smalltalk applications (Mater's thesis), *Y. Tymchuk*, Ivan Franko National University of Lviv, Ukraine, 2013.

Teaching

Università della Svizzera Italiana as Teaching Assistant

Software Atelier IV
Programming Fundamentals I
Bachelors Project
Spring 2014
Fall 2014, Fall 2015
Spring 2015

Service

Program Committee - NIER and Tool Tracks VISSOFT 2016

4rd IEEE Working Conference on Software Visualization

Artifact Evaluation Committee VISSOFT 2015

3rd IEEE Working Conference on Software Visualization

Personal Information

Date of Birth: Aug 11, 1991

Citizenship: Ukrainian

Place of Birth: Lviv, Ukraine

Marital Status: Married

Languages

English: Proficient Polish (spoken): Intermediate
Ukrainian: Native Speaker Russian (spoken): Intermediate

Italian: Basic

Hobby

Hiking picturesque or difficult mountains and reflecting amazing moments of this world with my camera. Few years ago I was still doing Kyokushinkai karate which allowed me to train my body as hard as I was training my mind.

Remarks for Nerds

This cv is written in LATEX, versioned with git, hosted on GitHub and built with Travis CI