

Vladimir M. Zaytsev

Email: zaytsev@usc.edu

Phone: +1 (213) 440 2570

Homepage: <http://zvm.me/>

Education

University of Southern California, Los Angeles
M.S., Computer Science, 2012 – present
Expected graduation date: May 2014

Yugra State University, Khanty-Mansiysk, Russia
B.S., Computer Science, 2008-2012
Diploma cum laude. GPA: 4.9/5.0

Additional Education

University of California at Berkeley
Summer Session Student, June – August 2011

- Practical Machine Learning (stat 132) – A level
- Concepts of Statistics (stat 135)

Internships and Jobs

Intern at USC Information Sciences Institute, *September 2012 - present*
Computational Behavior Group – <http://cbg.isi.edu>

- Directed research in Spatiotemporal Data Analytics projects. Investigating spatiotemporal domains, such as Twitter, and construct visualization and analysis tools that can assist both humans and machines in understanding patterns within the data.

Software Engineer at Medical Insurance Fund of Khanty–Mansi Autonomous Okrug
August 2011 - July 2012, Department of Software Development – <http://ofoms.ru>

- Designed and developed most of main web services at ofoms.ru; customer feedback collecting and classification system.
- Created technical documentation for system administrators.

Intern at Yugra Research Institute of Information Technologies, *Feb 2009 - May 2011*
Laboratory of Electronic Technologies in Education – <http://uriit.ru>

- Developed an application for extracting essential information from job description texts using natural language processing, including statistical methods and the “topic comment” approach.
- Developed subsystems in a web-platform for consumer-educational markets: search (finding similar objects), user text chat, user tools for data management.

Computer Skills

Programming: Python, NLTK, Scikit-Learn, C/C++, BOOST, STL, Erlang/OTP, R, C#, JavaScript;

Software: PostgreSQL, Riak, Redis, Mochiweb, Apache, Nginx, git, Linux, Mac OS, Windows;

Other: HTML, CSS, \LaTeX , SQL, XML, JSON.

Career and Research Interests

machine learning, information retrieval, natural language processing, distributed computing

Projects

Current Projects

- Spatiotemporal Data Analytics (September 2012 - present). <http://cbg.isi.edu/projects/>
- Farseer Project (July 2011 – June 2012) – A toolset for web news text analysis and social signals prediction. Source code (Python, C++, SQL, JavaScript): <https://github.com/zaycev/farseer>
- VRPTW (May-July 2012) – An application for solving vehicle routing problems with time windows. Source code (C#): <https://github.com/zaycev/vrptw>
- rfc4627c (2011) – a JSON encoder/decoder for Erlang/OTP. Source code (C, Erlang NIF): <https://github.com/zaycev/rfc4627c>

Other Projects

- E2C (2010 – 2011) – a web-platform for education-consumer networks. Source code (Erlang, JavaScript): <https://github.com/zaycev/e2c>
- TGS (2009 – 2010) – An application for extracting essential information from job description texts. (Erlang, Python, C#, C++)
- Algebra course project (2009) “Polynomials Factorization Over the Golois Fields”. Console application (C++, BOOST, Win32): <http://zvm.me/files/pf.tar.bz2>

Summer Schools

- 9th Estonian Summer School on Computer and Systems Science, 2010;
- EF Malta – International Language Schools, 2007.

Conference Talks

- 19th Youth Scientific Conference “Lomonosov 2012”, Moscow, April 2012
Topic: “Analysis of social activity around web-news and blogs to predict term associations”
- 49th International Scientific Students Conference, Novosibirsk, April 2011
Topic: “E2C: Web-Platform for Two-Sided Educational Markets”
- 48th International Scientific Students Conference, Novosibirsk, April 2010
topic: “Automated Extracting of Essential Information from job Description Texts”

Achievements, Awards and Grants

- Third diploma in International Scientific Students Conference
Novosibirsk, April 2012
- Second diploma in International Scientific Students Conference
Novosibirsk, April 2011
- First place in University Student Scientific Research Works Contest
scholarship by Salym Petroleum Development (<http://salympetroleum.ru/>)
Khanty-Mansiysk, June 2010
- First diploma in Student Research Conference at Yugra State University
Khanty-Mansiysk, May 2010
- Third diploma in International Scientific Students Conference
Novosibirsk, April 2010
- First diploma in Second District Government Computer Projects Contest
Khanty-Mansiysk, December 2009

Publications

- Vladimir Zaytsev, Lyudmila Alsynbaeva (2011) E2C: experimental platform for two-sided educational markets – a high level overview. 49th International Scientific Students Conference. Conference papers digest. IT Section, pp. 82 – 83.
Novosibirsk State University, 2011 (<http://issc.nsu.ru/en/node/133>).
- Vladimir Zaytsev, Lyudmila Alsynbaeva (2010) Automated extracting of essential information from job description texts. 48th International Scientific Students Conference. Conference papers digest. IT Section, pp. 131 – 132.
Novosibirsk State University, 2010 (<http://issc.nsu.ru/en/node/79>).

Public Services and Activities

- Co-organizer and judge of MathWeek at Yugra State University (2009 – 2011).