

# Oleksandr Maksymets

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## ACADEMIC HISTORY

- Sep 2014 **Ph.D in Computer Science**, Theoretical Foundations of Computer Science and Cybernetics, Taras Shevchenko National University of Kyiv, Ukraine.  
*Thesis topic:* Algebraic automata analysis methods of procedural programs and reactive systems. Research was devoted to program invariant generation using iteration algorithms. The first stage of invariant generating service was implemented at Google App Engine, the second at Maple.
- Jun 2010/2008 **M.S. (Honors)** in Applied Mathematics, GPA 4.8 (5.0 scale) **B.S. (Honors)** in Applied Mathematics, GPA 4.92 (5.0 scale), Taras Shevchenko National University of Kyiv, Ukraine, Department of Cybernetics

## EMPLOYMENT HISTORY

- Dec 2011 – **Technical Lead, Be Global Development Team, Kyiv, Ukraine**  
present Led software engineering team of 3 engineers, implemented agile methodology with bug tracker and git, practiced test-driven development. Worked with US client on the long term relationship basis. Some projects:
- Video analytics application server for 3-rd part analytics modules like car plate recognition, sensor line crossing, counting people in a queue. Server matches video streams with video analytics and provides frontend for configuration, handles full lifecycle | **Java, Spring, JPA, Jetty, JS** | 6 months x 4 engineers
  - Security Entrance System with 3D face scanners for [ArcelorMittal](#) | **Java, Spring MVC, JNI** | 2 mon. x 2 eng.
  - Frontend & middle layer for car plate recognition on [Hikvision](#) cameras | **JS, lua** | 3 mon. x 2 eng.
  - Ware-tracking System with video monitoring | **Python, Django, JS, HTML5, CSS** | 4 mon. x 2 eng.
  - Debt collection agency phone number crawler | **Ruby, PHP, GoogleSearch API** | 2 mon. x 2 eng.
  - Designed lead source tracking system and integrated SugarCRM with Google Analytics and [ifbyphone](#) | **PHP, JS, CSS** | 6 mon. x 3 eng.
  - Completed more than 10 web development projects for website with 50 000 unique visitors per month.
- Oct 2013 – **Assistant Professor of Cybernetics Department, KNU, Kyiv, Ukraine**  
present Information Systems Development Technologies (B.S. 1st), Automata Theory (M.S. 1st), Actual Discrete Mathematics Problems (M.S. 1st), Actual Software Development Problems (M.S. 1st) courses.
- May 2011 – **Software Engineer Intern, EPAM systems, Kyiv, Ukraine**  
Nov 2011 Was a head of the only one team that successfully finished the internship project. Developed Internet Banking with front and back office. User roles implemented, invoice and account management functionality, with correspondent level of security and enterprise integration patterns. Technologies: Java EE6, JPA, EJB, PrimeFaces, Maven, JBoss. Full time position on [Barclays Capital's](#) project was offered as result.
- Nov 2009 – **Implementation Consultant, TERRASOFT CRM solutions, Kyiv, Ukraine**  
Jan 2011 Developed specification and supervised the development of complex CRM projects in banking, distribution and professional services fields. Provided IT consulting for bank top 20 in Russian Federation. Designed and developed algorithm for costumer priority estimation and execution of telemarketing for technological bank top 30 in Russian Federation. Developed module of manager's daily activity planning in project for Katren, top 3 Russian pharmaceutical distributors.
- May 2006 **Freelance Software Engineer, UMG, Kyiv, Ukraine**  
– Nov 2009 Developed number of projects using PHP, MySQL, VBA and ActiveX.

## TECHNICAL BACKGROUND

**Java:** EE, Spring, JPA, JDBC, JSP, Hibernate, ANTLR, Google App Engine, JNI, JNA; **Python:** Django; **C++**  
**JavaScript:** jQuery, AJAX; XML, JSON, SOAP, REST API, **SQL:** MySQL, PostgreSQL, MSSQL; Maple, LaTeX.

**Lines of code:**



## AWARDS

Google Code Jam 2012, 2013, 2014 in top 35% in Qualification and 1st Rounds.  
Best Paper Award, International Scientific Conference [TAAC](#) in Kyiv (46 participants competed) 2012  
Opportunity Program Finalist, EducationUSA Network (80+ students competed) 2010  
National Ukrainian Olympiad in Informatics, Third Place Winner 2003  
National Ukrainian Tournament in Informatics, First Place Winner 2003

## ADDITIONAL TRAINING

Algorithms: Design and Analysis of Stanford University on Coursera (89.0% scores) Sep 2013;  
JAVA full course EPAM, 2011 | MPI classes from Microsoft Ukraine, Information and Computer Center, Apr 2009

## HUMAN LANGUAGES

English – Fluent, Ukrainian – Native,  
Russian – Excellent

## HOBBIES

15 years experienced skier, codeforces contests, competition with friends in competitive programming, known to be able to guess private key based on public one.