

ALEXANDER MURASHKIN

Project Demos: <http://amurashkin.kd.io/>

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Professional Knowledge and Skills

Client-server architecture and website development skills	Javascript, AJAX, JQuery, Node.JS, Angular.JS, D3.js, PHP, SQL, Drupal CMF, HTML, CSS, Zend Framework
Desktop/standalone application development	Java, Maven, Microsoft Visual C#, WPF, Delphi
Operating system design, real-time and embedded programming	C language, micro-kernel design, Märklin Digital Interface, ARM and Intel assembly languages
Mobile application development skills	Android Platform, Windows Phone 7, SQLite
Game development and computer graphics	OpenGL, GLUT, algorithms, data structures, Physics and Math skills, computational geometry
Domain, feature and architectural modeling	UML, SysML, AADL, Clafer language

Higher Education

2012 – Aug.2014 (expected)	MMath in Computer Science, University of Waterloo , Waterloo, ON, Canada. Average: 93 / 100
2008 – 2012	BSc in Computer Systems and Software, Kazakh-British Technical University, Almaty, Republic of Kazakhstan. Average: 3.97 / 4.00.

Employment History

<u>Sept 2012 – present</u> University of Waterloo	Graduate Research Assistant / Teaching Assistant <ul style="list-style-type: none">Designed and implemented Web-based tools for compiling, configuring and optimizing variability models (Node.JS, Javascript):<ul style="list-style-type: none">http://t3-necsis.cs.uwaterloo.ca:8094/http://t3-necsis.cs.uwaterloo.ca:8093/http://t3-necsis.cs.uwaterloo.ca:8092/Currently exploring modeling case studies (Clafer language):<ul style="list-style-type: none">Modeling system architectures with variabilityMulti-objective optimization and visualization of optimal instances and trade-offs of decision-makingPart of NECSIS project (http://gsd.uwaterloo.ca/necsis)
<u>Oct 2013 – Dec 2013</u> Pratt & Whitney Canada	Intern <ul style="list-style-type: none">Worked on system and software modelingExploratory work on optimization of general company's work flow
<u>June 2011 – Dec 2011</u> Kazakh-British Technical University	Senior Specialist <ul style="list-style-type: none">Developed International School of Economics and Social Sciences website (Drupal CMS, PHP, Javascript, HTML)Created few modules of the university website (Drupal CMS)Developed an online document processing system (Drupal CMS)Created an online file sharing system (Zend Framework)

Conferences and Events Attended

1. 17th International Software Product Line Conference 2013, Tokyo, Japan	as a paper author
2. Summer School on Cyber-Physical Systems 2013, Grenoble, France	as a participant
3. Microsoft Imagine Cup 2012, World Finals, Sydney, Australia	as a competition participant
4. Google Developer Day 2011, Moscow, Russia	as a winner of a local Hackathone by GTUG

Publications

Murashkin, A. , M. Antkiewicz, D. Rayside, and K. Czarnecki, " Visualization and Exploration of Optimal Variants in Product Line Engineering ", Software Product Line Conference, Tokyo, Japan, 2013
Antkiewicz, M., K. Bąk, A. Murashkin , R. Olaechea, J. Liang, and K. Czarnecki, " Clafer Tools for Product Line Engineering ", Software Product Line Conference, Tokyo, Japan, 2013.

Achievements and Awards

2012	<i>Microsoft Imagine Cup 2012, local finals</i> – 1 st place <i>"Red Diploma"</i> - a diploma with Honours – for perfect academic achievements
2011	<i>Android Hackathone competition</i> , Almaty Google Technical User Group, 1 st place <i>Microsoft Imagine Cup</i> , local final, 2 nd place <i>International Student Competitions of IT Projects</i> , Kazakh-British Technical University, "Multimedia technologies and Game Development" nomination – 1 st degree diploma, "Web Applications and Database Design" nomination – grand prize
2010	<i>International Competitions of IT Projects</i> , Kazakh-British Technical University, 3 rd degree diploma The scholarship named after the President N.Nazarbayev for perfect academic achievements
2009	<i>IT Project Competitions</i> , Kazakh-British Technical University, 2 nd degree diploma
2008	<i>Intel Excellence in Computer Science Award</i> for the project "Paper-based test generating computer application" <i>State Education Grant</i> (scholarship) and <i>Golden Medal</i> for perfect academic results <i>"Daryn" Junior Science Competition</i> , Computer Science section, 1 st degree diploma <i>Scientific project competition</i> , the Small Academy of Sciences, 1 st degree diploma

Languages

English: fluent, Russian: native, Kazakh: intermediate, German and French: beginner

Interests (besides programming):

Board games, Chess, Bicycling, Physics, Science.