Sergey N. Bolshchikov

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Objective: Front-end Developer Position

Personal Information:
Date of Birth: 03-Feb-1987
Citizenship: Russia, Israel

Experience:

New ProImage,
June 2012 – Current

Position: Front-end Engineer
Description:
Creating large-scale client side application for publishing houses.
Duties:
Extensive research of JS MVC frameworks (Backbone, Angular, Ember, Knockout, etc.), architecting client-side application frameworks (terrific, aura, hydra) including on design patterns (mediator, facade, module); unit-testing framework based on Jasmine and Karma (Testacular) runner.
Development:
Client side: HTML, HTML5(localStorage, WebSockets), JavaScript, CSS, jQuery, Kendo UI, Knockout, Ember, Jasmine, Karma, PhantomJS, Node.

Technion Research &
Development Foundation
June 2011 – June 2012

Position: Software Development Lead,
Project: Web-based Object-Process Methodology (OPM) CASE Tool
Description: On-line editor for Object-Process Methodology
Duties:
Leading the group of 8 developers, Gathering requirements, architecture developing; Modeling using OPM and UML;
Development:
Client side: HTML, HTML5, CSS, jQuery, JavaScript, Bootstrap, SVG;
Server side: Google App Engine, Python, Jinja2, Webapp2 framework;
NoSQL; Google Channel API.

Position: System Architect,
Project: TALOS – EU Border Protection System
Description:
Conceptual modeling of project's requirements.
Modeling behavior of UGV (Unmanned Ground Vehicle).

Position: System Architect,
Project: SISO Smackdown 2011 NASA Project
Description:
Analyzing the requirements.
Developing the conceptual model of Lunar Shuttle Vehicle and its behavior.
Leading the group of 5 people.

Creating the software tool of model mapping from Object-Process Methodology to Base Object Model (Python)

Technion – Israel Institute of Technology *March 2010 – June 2012*	**Position: Software Engineer** **Project: <u>Vivid OPM Evaluation Tool</u>** **Description**: Online evaluation tool intended for check Vivid OPM. Application assigns every signing person to one of two groups. Each group performs separate task. The results are analyzed. **Developement**: Client side: HTML, CSS, Javascript, jQuery, Facebook API, Google API Server side: Python, Google App Engine, used Open Auth2.0 algorithms **Position: Software Engineer**, **Project**: Vivid OPM Conceptual Animation Tool **Description**: Online application intended to animate conceptual OPM models into spatial-temporal space. **Duties***:* Developing animation tool for conceptual models simulation (Vivid OPM). Extensive research and analysis of currently existing solution. Developing architecture. The work has been presented in conferences in USA, Israel, France. **Development***:* Client side: HTML, CSS, Javascript, Ajax, jQuery; Server side: Apache Tomcat, Java **Position: Academic Adviser,** **Description***:* Developing Information System for Druze Heritage Museum. Leading the group of 5 students. Analyzing the requirements. Developing the models' set with OPM, UML, ERD. **Development**: Client side: HTML, CSS, Javascript; Server side: Apache, PHP, CodeIgniter Framework **Position: Teaching Assistant**, **Description***:* Course "Specification and Modeling of Information Systems"
Center of psychological, medical, and social maintainability for hearing-impaired children "ECHO" *Oct. 2007 – June 2009*	**Position: Software Engineer**, **Duties***:* Development of Information System for Center of Hearing-Impaired Children. The group leader of 4 developers. Analysis of organizational structure. Defining system requirements. Building set of models: conceptual, structural, algorithmic, mathematical. Design of database (Firebird). Implementation of client side with C++. Developing User Guide. National Software Registration: #2009613569 "Computer-Aided Information System 'ECHO'".

Education:

Oct. 2009 – May 2013	**Master of Science**, Technion – Israel Institute of Technology, Haifa, Israel Major: Information System
Sept. 2004 – June 2009	**Bachelor of Science**, Ural State Technical University, Yekaterinburg, Russia Major: Information Systems and Technology Minor: Medicine

Skills:

Operation System:	Linux, Windows, MacOS
Office:	MS Office, MS Project, MS Visio, OpenOffice
Development Management:	Git, Mercurial, Github, Bitbucket Scrum, Asana
Languages:	JavaScript, OOP Javascript, Python, C++, HTML, HTML5, CSS, SVG, JSON, XML
Libraries and Frameworks:	Aura, Ember, Knockout, Angular, Backbone, jQuery, Google App Engine, KendoUI, Jasmine, Mocha, Karma, PhantomJS, Node, jQueryUI, Bootstrap
Modeling:	UML, OPM, IDEF, BPMN
Editor:	Photoshop, CorelDraw

Language:	English (Full professional proficiency) Hebrew (Limited working proficiency) Russian (Native or bilingual proficiency)

Awards:

2009:	Certificate of National Software Registration #2009613569
2009:	Opportunity Grant from Public Affairs Section of US Embassy
2009:	University Exhibition of Students Inventions and Software – 1st prize

Publications:

Bolshchikov, S., Renick A., Mazor S., Somekh J., Dori D. (2011) OPM Model-Driven Animated Simulation with Computational Interface to Matlab. Proc. 20th IEEE International Conference on Collaboration Technologies and Infrastructure, Paris, France, June 27-29.

Bolshchikov S., Somekh J., Mazor S., Monadeev M., Hertz S., Choder, M. and Dori D. (2010). Visualizing the Dynamics of Conceptual Behavior Models: The Vivid OPM Scene Player. Proc. 3rd International Conference on Model-Based System Engineering, George Mason University, Fairfax, VA, USA, Sept. 27-28.

Professional Membership:	Ember-IL – official group of Ember in Israel (co-organizer), Google Developer Groups (permanent speaker), IEEE
About:	I love the start up environment where people are passionate about what they do and they care. I am determined, devoted and passionate to what I do. I believe it's OK not knowing something, but I am always learning and develop my skills. I believe, nothing can be done without a team. I do my best to bring the impact into the team and overall work.