Ilya Arzhannikov *November 03, 1984*

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Summary

Highly accomplished Senior Software Engineer with 20 years of hands-on experience in software development, system architecture, and technical leadership. Known for exceptional work ethic, self-reliance, and the ability to deliver innovative, high-quality solutions. Adept at driving team success, enhancing productivity, and shaping technological advancements.

Experience

Artec 3D Luxembourg, Luxembourg

Research and develop engineer. *September '18 – present*

I do research for new machine learning based algorithms to improve processing 3D data from scanners.

Keywords: C++, Python, TensorFlow, Torch

Artec 3D Moscow, Russia

Senior Software Engineer, C++, Artec Studio, 3D scanning SDK. *August '15 – September '18*

Artec Studio is product for 3D scanning and post processing raw data. Artec 3D-scanners have ordered geometry and texture frames on out and Studio helps to build ready models for later using. 3D scanning SDK it's set of routines for scanners communications and post processing algorithm for same goal but without visual component. It is huge projects with a lot of legacy code. My main task is to writing new components, to integrating new 3D-processing algorithms and to refactoring.

Keywords: C++, Visual Studio, Windows, wxWidgets, Qt

Yandex Yekaterinburg, Russia

Software Engineer, C++, Dynamic crawler. *May '14 – August '15*

The main point of dynamic crawler is to run JavaScript on html-page for catch AJAX data whichcan't be downloaded by original crawler. My task is to predict – will there be new data and how much? My part of this system look at new html page that spider have downloaded and give the changes probability. For model fitting I wrote scalable system that crawl Internet, run JS on pages and calculate some aggregations on data. For comparing two pages (html-without-ran-JavaScript and html-with-ran-JavaScript) I made couple of functions. That functions are model answer.

Keywords: C++, Python, Matrixnet, Machine learning, MapReduce, Linux

Software Engineer, C++, Crawler. *September '13 – May '14*

I have developed new factors for matrixnet-models. I have done a system for fitting/refitting and deploying matrixnet-models with only one click. Before this there was vary long hand-process for deploying new refitted models with system restarting and so on. Now all refitting-deploying process humanless, take for couple hours and absolutely online.

Keywords: C++, Python, Matrixnet, Machine learning, MapReduce, Linux

Software Engineer, C++, Mesh project. *May '13 – September '13*

Mesh is a system like Google Pragel. I have developed cooperative task scheduler on info about available resources (memory, CPU, disk usage). And I have done the system for functional testing.

Keywords: C++, Python, Linux

SKB Kontur Yekaterinburg, Russia

Software Developer, Erlang, Kontur-Expert. *June '11 – May '13*

Project for bookkeepers. It allows to estimate financial condition, creditworthiness, the probability of bankruptcy and etc. It was developed with Agile methodology. My zone of responsibility was back end.

Keywords: Erlang, Linux, Agile

Software Developer, C#, Kontur-Extern. *July '08 – June '11*

Kontur-Extern is a huge high-load project for passing any reporting (tax, financial and so on) to public institutions by Internet. I stabilized code, developed new subservices. I did common authentication and authorization system for all SKB Kontur products and did generic index service on Google File System like system.

Keywords: C#, Windows Server 2003, Windows Server 2008

Spectr Yekaterinburg, Russia

Software Developer, C++, 3D engine for automobile- and loco-simulator. *June '05 – July '08*

I did utilitarian part of 3D engine which includes: editors, import 3DMax models, configuration and calibration of special hardware.

Keywords: C++, Qt, Direct3D, Lua, Linux, Windows

Pet projects

Billijet   Yekaterinburg, Russia

Software Developer, C++   *2012 – 2013*

It would have to be android-cueist. We (I and one more guy) have done prototype that can not move around a table but can detect a boll and hit it. We represented it on INNOPROM but did not find investors.

Keywords: C++, Qt, OpenCV, Linux, Andurino

Skills

Technical spceialties: Software design and implementation, with(in) a team. Strong knowledge of C++/C#/Erlang, I use bash and python for automation regularly. Good knowledge of web technology: HTML+CSS, REST & JavaScript (jQuery).

Natural languages: Russian (*native*), English (*intermediate*).

Interests

Probability theory, statistics, machine learning, computer vision. Science fiction and fantasy.

Education

Ural state university.   Yekaterinburg, Russia

Mathematics and Mechanics department   *Not graduated*