

## Summary

I am an experienced and highly skilled C++ software engineer and seek to further develop my skills in a challenging position. I am analytical and methodical with strong problem solving skills, tempered with commer-

cial realism. My primary experience has been working on real-time, multithreaded systems, with a focus on scalability and performance.

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## Experience

### Artec 3D

MOSCOW, RUSSIA

#### Senior Software Engineer, C++, Artec Studio, 3D scanning SDK.

August '15 – present

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 which can't be downloaded by original crawler. My task is to predict how 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 Prigel. 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

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## Pet projects

Billijet

**Software Developer, C++**

YEKATERINBURG, RUSSIA

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

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## 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*).

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## Interests

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

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## Education

Ural state university.

**Mathematics and Mechanics department**

YEKATERINBURG, RUSSIA

*Not graduated*