Personal data

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I aim to design complex systems. I like to have an overview of all aspects involved in process or systems. I enjoy discovering new things to reach my potential.

It would be great to have a solid understanding how to create complex web applications and a broad understading of hardware aspects such as servers, networking, routers.

I would like to work with projects applying an asynchronous programming, WebSockets.

Skills

Skill category	Skill category
[1] programming languages, APIs and so on [2] tools, libraries, Oss [3] computing environments	[4] CS theory [5] Web scraping [6] .NET related things

	Skill	Proficiency			Skill	Proficiency
[1]	JavaScript ES5, ES6	●●●○○○		[3]	Mathematica	●●○○○○
	C++98 STL, Loki	●●●●●○			Matlab	●●○○○○
	SQL:1999	●●●●○○		[4]	Algorithms	●○○○○○
	Oracle PL/SQL	●●●○○○			Math High school	●●●●●○
	HTML/CSS	●●●○○○			Math University	●●○○○○
	Excel VBA	●○○○○○		[5]	Curl	●●●○○○
	WinAPI GDI	●●◐○○○			Visual web ripper	●●○○○○
	WinAPI Multithreading, Interprocess communication, COM	●●●○○○			Headless Chrome	●○○○○○
[2]	Windows	●●●●●○			puppeteer	●○○○○○
	Linux	●●○○○○			Mojo::DOM	●●○○○○
	Git	●●○○○○		[6]	BCB Anders Heilsberg!	●●●●●○
	regular expressions	●●●●○○			C#	◐○○○○○
	OpenGL	●○○○○○			Visual Studio 2017	◐○○○○○
	webpack	◐○○○○○				
	babel	◐○○○○○				
	npm	●●○○○○				

Projects, source code examples

Programming language	Description	Year
C++ Loki	Generate reports using factory pattern	2003
C++ WinAPI, GDI	Draw a graph with selectable nodes that synchronize their state with a table. (V ≤ 1000)	2005
C++ WinAPI, COM	Export data into MS Excel speadsheet	2005
C++ Math	Find a least common multiple for unique pairs of numbers (n ≤ 1000)	2012
C++ Math	Find the amount of common prime divisors for unique pairs of numbers either ($200 ≤ n ≤ 700$)	2013
Perl Apache, CGI, JSON	(*) Build a different interface to interact with Google Chrome bookmarks	2019
Perl curl, regexes	CSS properties reference (site grabber)	2019
Perl	Youtube anonymous playlist creator (It is a feature of (*))	2019
Perl Apache, CGI	It is an MVP model of CSS Lab. It is a custom designed tool to learn CSS and HTML efficiently ([signposts](), [video]())	2019
JS Algrorithms	expression-calculator ([js](), [perl]()), finite-state-machine ([js](), [perl]()), doubly-linked-list ([js](), [cpp]()). Besides there are the [problems]() themselves.	2019 Oct.
JS Node.JS	Github authentication using OAuth ([src](), [live demo]())	2019 Dec.
JS Clean archirecture	An approach to develop a UI framework ([src](), [live demo]()).	2019 Dec.
JS UI	A pretty simple clone of the [Piskel]() editor ([src](), [live demo]())	2019 Nov.

Employment history

✓ I am able to find simple solutions to subtle problems! :-)

Local steelmaker (2005-2008)

Job title: software developer

Project summary	Role	Year
Creating a management accounting system using balanced scorecards.	Using the suggested architecture I delevop a code to calculate the indicators on the sever-side. This project was not delayed despite a senior developer being on annual leave. Also I created an application which allows the indicators to be calculated with given rules. And I designed an application to color the indicators in the MS Visio.	2006

Self-employment (2010-2016)

Job title: private math tutor

I noticed from experience, it seems that I can clearly explain any topic I am proficient using my own words and methodologies (mathematics, CS, Git,…)

Local Internet provider (2017, job applicance)

Job title: salesman

I came up with a different way of selling Internet-services, i.e. I designed my own marketing campaign (pretty local)

Coursera (2018-2019, student)

I developed a novel method for coursera to deliver an online learning. (for my use only :-))

Government-founded public service (2017-2018)

Job title: system administrator

- I identified that exessive amount of routers being used and then resolved this issue by reducing the number of routers by 50%. (4 ⇒ 2);
- I have found a way to extend the lifespan of laser printer cartridges up to 35%;
- I came up with an idea to provide more efficient customer service. This solution had not been proposed by anyone previously.

Education

1999-2004, Lipetsk State Technical University (Degree in applied mathematics)
2005-2008, Part-time unversity (ВЗФЭИ), (Accountant)

Licenses & certifications

Course	Platform	Progress	Year
Machine Learning	Coursera	75%	2019
Introduction to Perl	Stepik	60%	2019
Algorithms, Part I	Coursera	0%	-
Multithreaded programming in C++	Stepik	0%	-

English, German

I practice English nearly 2 years with a native speaker. It seems that I discovered a new method for acquiring any language that is more effective that formal tuition.
Ich habe Deutsch in der Schule gelernt. Ich kann nur auf Deutsch lesen.