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**Summary**

An experienced software engineer striving to make a career in data science.

I quit my software development job to dedicate 100% of my time to studying probability, statistics, data analysis and machine learning.

I have extensive commercial experience with **SQL** (MS SQL Server, SQLite), building **RESTful** **APIs**, **Test Driven Development** (unit testing, integration testing), **Continuous Integration** (TeamCity, Jenkins, git, SVN).

What I’ve been self-studying for the past months:

* **probability theory**, **inferential statistics** (point estimates, confidence/credible intervals), **exploratory data analysis** (data wrangling, data visualization), **confirmatory data analysis** (hypothesis/significance testing)
* **R** (stats, dplyr, tidyr, ggplot2), **Python** (pandas, NumPy, SciPy, matplotlib, bokeh)

**Courses**

**Machine Learning by Stanford University**

Jan 2017

**Coursera** [https://www.coursera.org/account/accomplishments/records/AL4F455VW4DX](http://www.zopa.com/)

**Education**

**National Technical University of Ukraine "Kyiv Polytechnic Institute"**

2005 - 2007

**Solid-state physics, postgraduate study**

Approximate analytical model of anisotropic coordinate-sensitive radiation detector, comparison to numerical 3D-simulation. With the numerical simulation, a system of second-order nonlinear differential equations was solved taking into account the heats released (absorbed) by eddy thermoelectric currents:

* Snarskii A. A. Adzhigai G. V. Ascheulov A. A. Coordinate-sensitive anisotropic radiation detector. Analytical description and numerical simulation. Journal of Thermoelectricity. 2005, No. 1. - p.80-86.
* Snarskii А. А. Adzhigai G. V. Bezsudnov I. V. On the inherent figure оf merit of thermoelectric composites. Journal of Thermoelectricity. 2005, No.4. - p.74-81. <http://arxiv.org/abs/cond-mat/0609447>
* Snarskii A. A. Adzhigai G. V. Bezsudnov I. V. Thermoelectric properties of macroscopically inhomogeneous media, 25th International Conference on Thermoelectrics - Vienna, Austria, 2006.

**National Technical University of Ukraine "Kyiv Polytechnic Institute"**

1999 - 2005

**Applied mathematics, Msc**

**Experience**

**Software Engineer**

Jun 2015 – Mar 2017 (1 year 10 months)

**Zopa** <http://www.zopa.com/>

Took part in the peer-2-peer lending revolution:

* As a software engineer designing and enhancing core parts of the platform such as matching engine and repayment processing, building REST API using C# 6, Web API 2.0 and Swagger (along with RabbitMQ for messaging, TinyIoC and StructureMap for dependency injection, NUnit and Moq for unit testing)
* As an occasional data analyst building advanced reporting solutions off company's MS SQL Server 2008 database utilizing various T-SQL capabilities including common table expressions, cursors, ranking etc which, quite contrary to the common belief, in some cases can improve query performance dramatically. Used Quartz as a scheduler

**Experienced Engineer**

Jun 2014 – Feb 2015 (9 months)

**InsightSoftware.com** <http://www.insightsoftware.com/>

Contributed to both server and client ends of company's bespoke BI system:

* Fixed and enhanced system’s core SQL generating engine
* Maintained local JavaScript-based SVG graphics library including thorough refactoring, performance enhancements and development of key new features

**.NET Developer**

Apr 2013 – May 2014 (1 year 2 months)

**EPAM Systems, Barclay’s development center** [http://www.epam.com](http://www.epam.com/)

Maintained, redesigned and enhanced corporate banking software within various teams or acting independently:

* Developed a set of multi-tier WCF based services using IoC which dramatically improved platform’s responsiveness and scalability
* Created a data import and processing tool using advanced SQL and existing scheduling engine.
* Set up continuous integration environments for above mentioned projects using TeamCity, with unit testing, code quality control (StyleCop and Sonar) and NuGet package management

**.NET Web Developer**

Sep 2011 – Apr 2013 (1 year 7 months)

**Terrasoft Ukraine** [http://www.bpmonline.com](http://www.bpmonline.com/)

Developed a web based CRM application on both front and back sides:

* Created a number web controls for bespoke UI engine using ExtJ, CSS and HTML
* Integrated Highcharts interactive library into the existing application
* Developed business logic solutions for various vertical solutions using C#, WCF, ASP.NET and T-SQL

**Senior System Dev. Consultant**

Feb 2006 - Apr 2011 (5 years)

**SimCorp Ukraine LLC** [http://www.simcorp.com](http://www.simcorp.com/)

Developed and maintained bespoke investment management system within a team of 3 developers:

* Built data extraction/analysis utility using **Dyalog APL** and **PL/SQL**
* Took part in various development projects across the company as a senior consultant
* Coached and supervised junior developers