Andrey Akinshin

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Education and scientific work

AltSTU, **Faculty of Information Technologies** (Barnaul, Russia)

09/2006–06/2011 · Student, specialty 230105.
Honours degree, 5.0 GPA, the student of the year 2009, head of the group.

08/2011–12/2013 · PhD student, specialty 05.13.18.
PhD in Mathematics and Computer Science (defended in December 2013).
The scholarships SP-561.2012.5 of the President of Russian Federation.

Sobolev Institute of Mathematics SB RAS (Novosibirsk, Russia)
Laboratory of Inverse Problems of Mathematical Physics

08/2012–06/2014 · Engineer

07/2014-Present · Research scientist
Interests: bioinformatics, gene networks, bifurcation theory.
The grants RFBR 12-01-00074, RFBR 15-01-00745 A.

Weizmann Institute of Science (Rehovot, Israel)
Faculty of Mathematics and Computer Science

10/2014-Present · Postdoctoral Research Fellow
Interests: digital signal processing, Fourier transform, Prony systems.

Enterprise programming

Specialization · .NET, Algorithms, Mathematics, Architecture design

High level · .NET/C# (CLR, FCL, WPF/WinRT/Silverlight)

Medium level · R, LaTeX, CIL, Python, ASM, Java, Delphi, HTML, CSS, JavaScript, PHP

09/2010–Present · **Perpetuum Software LLC** / **Enterra, Inc**
09/2010–08/2011 · Junior Software Developer
09/2011–01/2013 · Software Developer
02/2013–Present · Lead Software Developer

○ **PassportVision**: Software for recognizing data from document scans based on OpenCV, Tesseract.
Team Lead, responsible for the architecture design and recognition algorithms.

○ **Grapholite**: Diagram editor for 🪟 🪟 🔵 🟠 🤖 (an analogue of MS Visio). Responsible for algorithms, mathematics, and architecture design.

○ **Knockout MVC**: ASP.NET MVC wrapper for knockout.js. Main developer: architecture design, API, client and server logic, official site with a demo center, documentation, etc.

○ **UI Controls for Windows 8**: A set of UI controls that will help develop true Windows Store application faster. Main developer: architecture design, API, XAML-layout, demo project, documentation, etc.

Competitive programming

Over the seven-year career I solved a few thousands of problems, took part in several hundreds of programming competition, thoroughly studied many algorithms. Selected contests:

09/2002–05/2006 Gymnasium №42 (Barnaul, Russia)

Final of Russian Olympiad in Informatics [ROI 2006](#)
Gold medal

06/2006–04/2009 The first team of Altai State Technical University

[ACM International Collegiate Programming Contest 2008](#) (Canada)
Certified participant

[ACM International Collegiate Programming Contest 2009](#) (Sweden)
Silver medal

Teaching

09/2006–05/2012 [Coach](#) of competitive programming and mathematics teams in Barnaul [Gymnasium №42](#). Also administrated contest server (Linux/[Ejudge](#)).

09/2009–06/2012 [Senior lecturer](#) of computer science and mathematics in Altai Economics and Law Institute, Department of general mathematical and scientific disciplines.

09/2009–06/2012 [Lecturer](#) under the Russian federal program [F-263 №4](#).

Open source projects

[ProblemBook.NET](#) Free book with compilation of .NET and C# problems
[Phd-LaTeX-Template](#) LaTeX-template for Russian Phd thesis
[BenchmarkDotNet](#) Lightweight .NET-framework for benchmarks
[InteropDotNet](#) Cross-platform AnyCPU P/Invoke for .NET
[CultureInfoExplorer](#) WPF-explorer of CultureInfo instances in .NET

Selected certificates

07/2014 [Microsoft Certified Professional (MCP)](#)
12/2014 [Data Science, a 10-course specialization by Johns Hopkins University on Coursera](#)

Profiles

CV http://aakinshin.ru

Blog (Ru) http://aakinshin.blogspot.ru

Blog (En) http://blogs.perpetuumsoft.com/author/andrey-akinshin

GitHub https://github.com/AndreyAkinshin

StackOverflow http://stackoverflow.com/users/184842/AndreyAkinshin

Habrahabr http://habrahabr.ru/users/dreamwalker

LinkedIn http://www.linkedin.com/in/AndreyAkinshin

Mendeley http://www.mendeley.com/profiles/andrey-akinshin/