

# Sergey Sobko

Senior Software Engineer

## Education

2010–today **Specialist (BSc/MSc), 230101 Computers, Computer Systems and Networks**, *Moscow State Institute of Electronics and Mathematics – Higher School of Economics*, Moscow.

## Experience

- 2015–today **Senior Software Developer**, *Positive Technologies*, Moscow.  
Web Application Firewall (<http://www.ptsecurity.com/products/af/>) solutions R&D using Python (Flask, Twisted) and JavaScript:
- Active Directory integration for PTAF configuration UI;
  - Detailed report generation functionality (attacks, alerts, etc.).
- 2013–2015 **Software Engineer**, *RosBusinessConsulting*, Moscow.  
Quotes monitoring web solutions R&D using Python (Django, Tornado), JavaScript, Postgres and Oracle:
- Quote.rbc.ru (<http://quote.rbc.ru/>) development and maintenance:
    - Created Top News section (<http://quote.rbc.ru/topnews/>);
    - Created Services and Prices section – e-shopping solution (<http://quote.rbc.ru/price/>) from scratch;
    - Created authorization, registration and Personal Cabinet parts (<http://quote.rbc.ru/user/>) from scratch and integrated them with intracorporate Oracle database;
  - Spot currency market (<http://cash.rbc.ru/>) bug fixing, development and maintenance, Oracle to Postgres migration;
  - Reimplemented Quotes monitoring for GazPromBank (<http://v2.gpbmon.rbc.ru/>).
- 2011–2013 **Developer**, *Bank's Soft Systems*, Moscow.  
Online Banking (<http://www.bssys.com/>) solutions R&D:
- Developed and fixed special versions of online banking solution Private Client for Nordea Bank, Uniastrum Bank, MTS Bank, Tatfondbank, etc. using Oracle, Delphi and jQuery;
  - Implemented multiple handwritten signature analogue functional in standard version of online banking solution Private Client;
  - Created a build system using Ant, Jython, Java and Javascript.
- 2010–2011 **Web developer**, *DEKO Media*, Moscow.  
Web sites and internal ERP solutions R&D using Python (mod\_python) and JavaScript:
- Created warehouse maintenance solution from scratch;
  - Created dispatcher workplace solution from scratch;
  - Redesigned DEKO Media web site (<http://deko-media.ru/>).

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- 2009–2010 **Specialist**, *Russian Armed Forces (GRAU)*, Dzerzhinsk.  
 One-year compulsory military service:
- Worked with weapons and military equipment;
  - Made extensive use of MATLAB and Simulink to create systems which help calculate trajectories of missiles using high-speed cameras.
- 2008–2009 **Intern**, *DEKO Media*, Moscow.  
 Configured and assembled large numbers of PCs and servers. Helped maintain two DEKO Media websites.

## Languages

- Russian (First language)
- English (Technical)

## Technical Experience

### Proficient With

- languages Python, JavaScript, Matlab, Pascal/Delphi, HTML, CSS
- technologies Django, Flask, Tornado, MySQL, SQLite, L<sup>A</sup>T<sub>E</sub>X, Bash Scripting, Git, Subversion, PostgreSQL, MongoDB, jQuery, Bootstrap, Windows, Debian & Red Hat Linux, OSX, JSON, Ant, XSLT, Regexp

### Have Experience With

- languages PHP, Java, C<sup>‡</sup>, C/C++, Erlang, Haskell, Scala
- technologies Apache, Nginx, Flash, GIMP, SQL Server, Oracle, Eclipse, .NET

## Relevant Coursework

### Moscow State Institute of Electronics and Mathematics, Moscow

- computer science Programming in C, MATLAB, Machine Language (Intel, Motorola), Computer Network Fundamentals, Physical Layer of Computer Networks, Programming Languages, Computer Architecture, Algorithms, System Software, Databases, Operating Systems, Digital Graphics, Wireless Sensor Networks, Information Security (ZyXEL Course)
- electrical engineering Electromagnetics, Systems and Signals, Circuit Analysis, Circuit Design, Microprocessor Systems

## Certifications

- 2014–today **Molecular Biology and Genetics**, *Bioinformatics Institute*, Saint Petersburg, 100%.

## Interests

- Programming Python, Erlang, Haskell, Scala
- Music Saxophone, Trumpet, Drums, Piano, Guitar
- Sports Longboarding, Snowboarding, Tennis
- Science Bioinformatics, Category theory

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