Sergey Sobko

Senior Software Engineer / Team Lead

Experience

2016–today **Team Lead**, *Positive Technologies*, Moscow.

Web Application Firewall (`http://www.ptsecurity.com/products/af/`) solutions management and R&D using Python (Flask, Twisted), Groovy and JavaScript:
- Created domain-specific language and interpreter for network configuration;
- Created device package for PT AF integration with Cisco ACI;
- Designed architectural solution for data structure unification;
- Managed AF user interface and network infrastructure team;
- Presented Cisco ACI and PT AF integration with Cisco Systems representetives at Positive Hack Days VI.

2016–today **Coach**, *Django Girls*, Moscow.

Coached girls at DjangoGirls Moscow 2016 (`http://tceh.com/djangogirls/`).

2015–2016 **Senior Software Developer**, *Positive Technologies*, Moscow.

Web Application Firewall (`http://www.ptsecurity.com/products/af/`) solutions R&D using Python (Flask, Twisted) and JavaScript:
- Implemented Active Directory integration for PTAF configuration UI;
- Created detailed report generation functionality (attacks, alerts, etc.);
- Took 3rd place in Digital Substation Takeover contest at Positive Hack Days V.

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 HSA (handwritten signature analogue) functional in standard version of online banking solution Private Client;
- Created a build system using Ant, Jython, Java and Javascript.

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2010–2011	**Web Developer**, *DEKO Media*, Moscow.
	Web sites and internal ERP solutions R&D using Python (mod_python) and JavaScript:
	o Created warehouse maintenance solution from scratch;
	o Created dispatcher workplace solution from scratch;
	o Redesigned DEKO Media web site (`http://deko-media.ru/`).
2009–2010	**Specialist**, *Russian Armed Forces (GRAU)*, Dzerzhinsk.
	One-year compulsory military service:
	o Worked with weapons and military equipment;
	o 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 number of PCs and servers. Helped maintain two of DEKO Media websites.
2005–today	**Opensource Developer**, *The Profitware Group*, Moscow.
	Participated in the creation of free software:
	o For Moscow State Institute of Electronics and Mathematics:
	- CircuitryLib – Python library for modelling various circuit engineering systems;
	- SpiritLevel – PoC for MicroPython device;
	- ErlangIO – PoC for connecting Erlang VM with GNU/Linux kernel;
	- mDSS – Decision Support System in Clojure;
	- Cheque – Flask OCR RESTful service;
	o Productivity Desktop Environment for Fedora GNU/Linux;
	o HostsSwitcher – Small OS-independent utility for switching hosts file in Groovy;
	o ProfitPlatform-NG – Python and Erlang distributed RPC using RabbitMQ;
	o SaltStack small improvements.

Education

2010–2016	**Specialist (BSc/MSc), 230101 Computers, Computer Systems and Networks**, *Moscow Institute of Electronics and Mathematics – Higher School of Economics*, Moscow, *GPA – 7.5*.

Languages

o Russian (First language)
o English (Technical)

Technical Experience

Proficient In

languages	Python, JavaScript, Clojure, Matlab, Pascal/Delphi, HTML, CSS
technologies	Django, Flask, Tornado, MySQL, SQLite, Emacs, LaTeX, Bash Scripting, Git, Subversion, PostgreSQL, MongoDB, jQuery, Bootstrap, Windows, Debian & Red Hat Linux, OSX, JSON, Ant, XSLT, Regexr

Have Experience With

languages	PHP, Java, $C^\sharp$, C/C++, Erlang, Groovy, 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, Clojure
Music	Saxophone, Trumpet, Drums, Piano, Guitar
Sports	Longboarding, Snowboarding, Tennis
Science	Bioinformatics, Networks, Machine Learning