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✉ info@profitware.ru
in bug2bug
🔗 profitware

Sergey Sobko

Senior Software Engineer / Team Lead

Education

Engineer's degree, 230101 Computers, Computer Systems and Networks, Moscow Institute of Electronics and Mathematics – Higher School of Economics, Moscow. 2010–2016

Languages

- English (Upper Intermediate)
- Russian (Native)

Technical Experience

Proficient In

languages: Python, JavaScript, Clojure, Matlab, Pascal/Delphi
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, Regexp, HTML, CSS

Have Experience With

languages: PHP, Java, C#, C/C++, Erlang, Groovy, Haskell, Scala
technologies: Apache, Nginx, Flash, GIMP, SQL Server, Oracle, Eclipse, .NET

Current Position

Team Lead, Positive Technologies, Moscow. 2016–present

Web Application Firewall (<https://af.ptsecurity.com/>) 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 which gradually increased up to 10 members.
- Presented Cisco ACI and PT AF integration with Cisco Systems representatives at Positive Hack Days VI.
- Implemented part of WAF transparent proxy mode (bridge I2 interception).

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

Web Application Firewall (<https://af.ptsecurity.com/>) 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.

Software Engineer, RosBusinessConsulting, Moscow. 2013–2015

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 Oracle database.
- Spot currency market (<http://cash.rbc.ru/>) bug fixing, development and maintenance, Oracle to Postgres migration.
- Created Quotes monitor for GazPromBank (<http://v2.gpbmon.rbc.ru/>).

Developer, Bank's Soft Systems, Moscow. 2011–2013

Online Banking (<http://www.bssys.com/>) solutions R&D.

- Developed and fixed special versions of online banking solution Private Client for Nordea Bank, Uniastrium Bank, MTS Bank, TFB, 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.

Web Developer, DEKO Media, Moscow. 2010–2011

Web sites and internal ERP solutions R&D using Python and JavaScript.

- Created dispatcher workplace and warehouse maintenance solution from scratch.
- Redesigned DEKO Media web site (<http://deko-media.ru/>).

Opensource Developer, The Profitware Group. 2005–present

Participated in the creation of free and opensource software:

- For Moscow 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.
- Productivity Desktop Environment for Fedora GNU/Linux.
- ProfitPlatform-NG – Python and Erlang distributed RPC using RabbitMQ.
- Lisp Flavoured Erlang (LFE): finite lazy sequences and cycle/1 implementation.
- SaltStack and Ferm small improvements.

Teaching and Coaching Experience

Lecturer in Computer Science, Higher School of Economics, Moscow. 2016–present

Web Development Course (<https://www.hse.ru/edu/courses/184775196> – for Master's program Computer Linguistics) which aims to teach students:

- making up web pages using Bootstrap;
- creating web applications using Python (Flask, Celery);
- creating modern frontend web applications using AngularJS.

Coach, Django Girls, Moscow.

2016–present

Coached participants of Django Girls Moscow 2016 (<http://tceh.com/djangogirls/>).

Certifications

Molecular Biology and Genetics, Bioinformatics Institute, Saint Petersburg, 100%. 2014

Distributed Team Management, Netology Group, Moscow. 2016

Engineer's Degree Thesis

Title: Web Application Firewall Cluster Configuration Management System for Heterogeneous Networks

Final Grade: 10 out of 10

Abstract: <https://www.hse.ru/en/edu/vkr/182863697>

Defense: <https://www.youtube.com/watch?v=-pzmGtnNtz4>

Interests

Programming: Python, Erlang, Clojure

Music: Saxophone, Trumpet, Drums, Piano, Guitar

Sports: Longboarding, Snowboarding, Tennis

Science: Bioinformatics, Networks, Machine Learning