

Alexander Kovalev

Senior python developer

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Skills & Expertise

Python, Django, Flask, ApiStar, aiohttp
PostgreSQL, Oracle, MongoDB, Neo4j, MySQL,
Go,
Vue.js, JavaScript, TypeScript,
Git, Scrum, Project Management,
Software Development, HTML, CSS,
Ubuntu, Asterisk, Linux, Docker, Vagrant, 1C

Experience

Software Developer at Yandex (Financial Division)

November 2017 – Present

Our team constantly working on fixes and improvements of payment gateway backend services.

This includes API (REST and XMLRPC), caching, maintaining sensitive data, interaction with payment processing services, integration with a variety of yandex' services.

Unfortunately, I can't give any particular information about my tasks. Although I can tell that I made three major integrations with Yandex services and external partners. I also improved some parts of our services with critical performance and storage consuming issues.

Senior Developer at Positive Technologies (Division of Development Technologies)

July 2016 – October 2017 (1 year 4 months)

Developing tools and services for DevOps automation using python and django. Developing ICAP asynchronous client in python.

Selfemployed (entrepreneur)

October 2015 – October 2017 (2 years)

Developing and deploying in production several micro web-applications using python/django, javascript/angularjs, typescript/angular2. Searching for some interesting and challenging project.

Backend python developer at VIAcode

January 2016 - March 2016 (3 months contract)

I worked as a contractor (backend python developer) for US customer. Technologies: python, flask, celery, websocket, neo4j, mongodb, nginx, ubuntu. Client side (other contractor): jQuery. Client server integration: Ajax, JSON. Agile (scrum): daily scrum meetings in English. We used JIRA for project management, and Bitbucket for our git repository.

CEO / project manager / developer at Center of Technical Services KRUG, LLC

March 2014 - February 2016 (2 years)

We developed and deployed to several clients our call-center, based on asterisk, ubuntu server and SIP- telephony. Our product was built using python/django, javascript/dhtmlx.

CFO at TransSvyazTelecom, LLC

January 2014 - February 2016 (2 years 2 months)

Engaged in the development of regulations, accounting policies, and automation of business processes and financial/accounting based on 1C:ERP / 1C:Accounting 3.0. Led implementation of technical components of the project "112" in our city (similar to 911 in USA).

CEO / owner at Compium, Ltd

September 2010 - February 2016 (5 years 6 months)

IT outsource for financial departments of companies (accounting software support and development). Some projects developed using python and django. Sometimes I used dhtmlx for a frontend.

Selfemployed (entrepreneur)

March 2004 - September 2010 (6 years 7 months)

IT outsource for financial departments of companies (accounting software support and development)

Developer at several small companies

December 2002 - February 2004 (1 year 3 months)

I supported and eventually fixed several small business applications, including 1C configurations.

IT engineer at Tyndales, JSC

November 2001 - November 2002 (1 year 1 month)

Local area network installation, server setup. Support and fixes for existing software of wood sales management (FoxPro, Clipper)

Sound operator at Amur Region State Television

October 2000 - November 2001 (1 year 2 months)

Audio editing for radio and documental films, broadcasting of radio programs, some video editing.

IT engineer at Tyndales, JSC

January 1999 - October 2000 (1 year 10 months)

Restructuring and fixing local area network (coaxial), reinstall or setup workstations.

Developer at Computer Class of PMA LLC

August 1995 - November 1996 (1 year 4 months)

Develop software for students managing. Help students with their jobs in computer science.

Languages

Russian	(Native)
English	(Professional working proficiency)

Certifications

1C:Professional. "1C:Enterprise 8.2" platform	1C	April 2011
1C:Professional. "1C:Accounting 8"	1C	May 2009
1C:Professional. "1C:Accounting 7.7"	1C	May 2009
Work with "1C:Accounting 7.7"	specialist.ru	May 2007
Work with "1C:Trade 7.7"	specialist.ru	May 2007
Setting up home and office computers	specialist.ru	May 2007
Using Linux	specialist.ru	April 2004

Courses

Independent Coursework

1C: Enterprise 8. Deploying and adapting configuration "Accounting"	2011
1C: Common mechanisms of "1C:Enterprise 8.2" platform	2011
1C: Configuring 1C system	2011
1C: Accounting in "1C:Enterprise 8"	2009
Accounting	1995
PC operator	1990

Recent projects

trust-directory

Used technologies: Go

Golang version of dictionary service, originally written in Python. This is a REST service, which responses with several types of data from oracle database. Request/Response is a json structure. Service loads its configuration from xml with additional xml included. So it reads all xml files recursively and loads necessary parameters. This application gave us visible performance boost.

Django-rester

Used technologies: python3, Django 1.11+

Package for creating API with built-in validation and authentication.

This product is designed to build API endpoints of varying complexity and nesting, but simple enough comparing to DRF.

The core is a view class - BaseAPIView (the inheritor of the standard django view class)

@devops_mega_bot

Used technologies: python3

Telegram bot that allows to find out most recent versions of open source python packages from DevOpsHQ GitHub community.

I made this bot when worked on CrossPM project in Positive Technologies company.

CrossBuilder

Used technologies: python3

CrossBuilder is a universal extensible build steps executor. It lets you define single build process which can be started from different CI/CD systems. TeamCity or GitLab CI for instance.

This tool is widely used in CI/CD processes in Positive Technologies company.

CrossPM (Cross Package Manager)

Used technologies: python3

<https://github.com/devopshq/crosspm>

<https://pypi.python.org/pypi/crosspm>

CrossPM is a universal extensible package manager. It lets you download and as a next step - manage packages of different types from different repositories.

This tool is widely used in CI/CD processes in Positive Technologies company.

CrossPM2

Used technologies: Go

CrossPM2 is a simplified version of original CrossPM project. It was written in Go language just out of curiosity of possible performance profits. It's indeed works faster, but it's not as universal as python version. Yet it might evolve in fully functional replacement of python version someday. In present, it only used in few internal CI processes at Positive Technologies company.

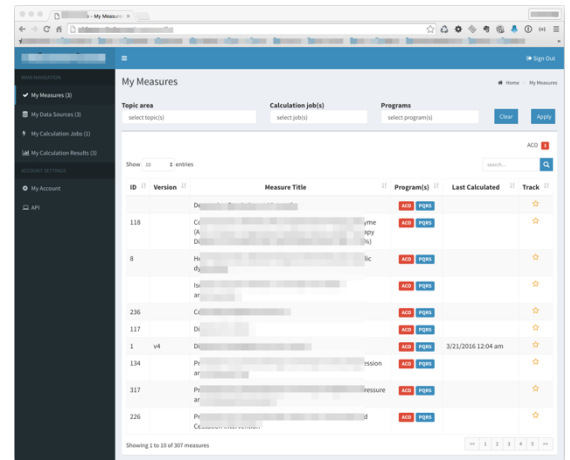
Application for accessing medical measurements related information (python backend)

Used technologies: ubuntu servers on Digital Ocean, nginx, python, flask, celery, neo4j

I worked as a contractor (backend python developer).

After this project, I really like neo4j database and the whole idea of graph database.

This project actually was an amazing experience, when I was happy to work with distributed team, and to write backend only. Our daily scrum meetings (online) was productive enough and I was really enjoying talking with that passionate and determined team.

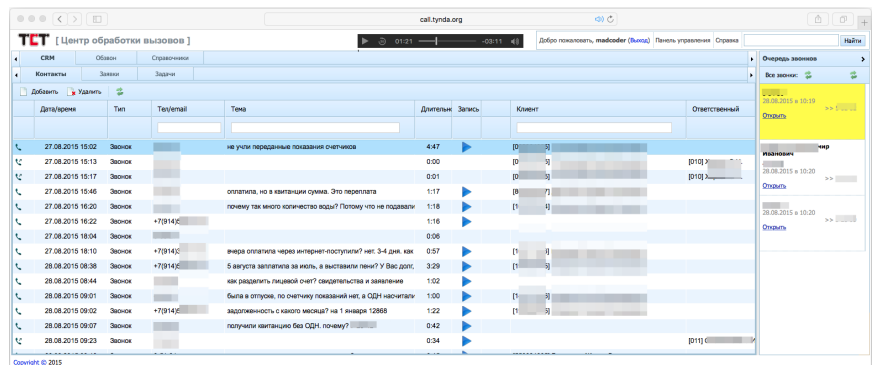


Call center

Used technologies: ubuntu server, asterisk, nginx, python, django, javascript, dhtmlx.

This application works with few differences (customizations) in several companies.

In present I plan to rewrite frontend using angular instead of dhtmlx. It'll allow to join this project with a bigger one. And angular components used for that bigger project work much faster than dhtmlx.

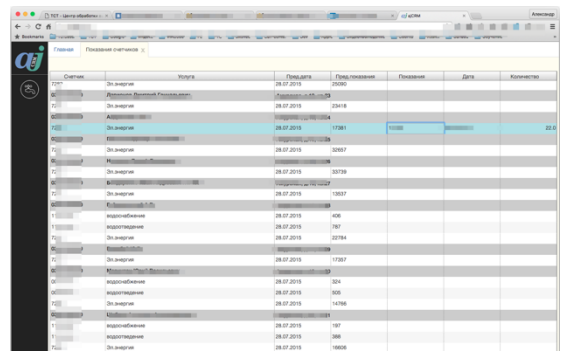


ajCRM

Used technologies: ubuntu server, nginx, python, django, javascript, angularJS

It's a platform for business. In present I have the "Rent" module in test and finish stage. I also began "Trade" module and planning to do "Passport Office" module. As mentioned above, I'm rewriting my "Call Center" project to match this platform.

Another thing to do, I decide to use material design and new Angular/TypeScript in frontend and already began to implement it on a separate branch.

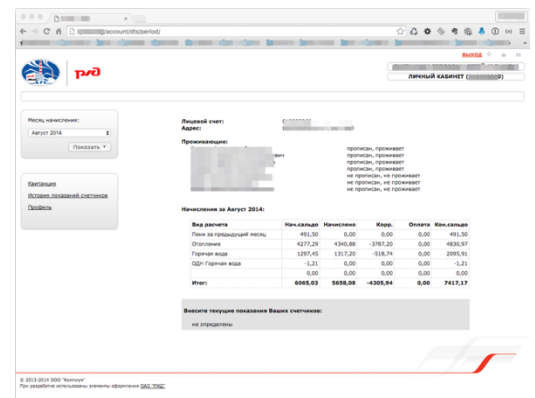


Private office for customers of utility company

Used technologies: ubuntu server, nginx, python, django, javascript, html, css.

This application works in my customer's company.

I plan to rewrite frontend using angular/material instead of plain html and css. It'll allow to join this project with ajCRM. I also plan to rewrite backend to match it. Right now the project is integrated with "1C" application, which is used for utility company's billing.



Summary

I am very fond of programming. I can also be a Team Lead of web-development team.

In past several years I tried to work in some different occupations, never actually leaving programming. But I realized about a decade ago that my further career is in the software development, because it is what I'm happy to do even when I don't have to. I also like to lead talented programmers in writing some project. Web application, for example.

I always in search for complex and interesting projects. What I like most is to write tools using python or web backend using Django or Flask or some other framework or even in plain python. I'm growing my experience in Go language too. It's really interesting and powerful.

My experience in IT had started in 1993, when I earned my first money with programming. And since 2002 I began to use widely my knowledge of Accounting. I became an entrepreneur in 2004. Since then I used to work in several companies, but didn't find the one that could give me interesting projects constantly and could allow me to earn enough money until several years ago, when I moved to Moscow.

What I do in present:

- I currently work at Yandex in payment gateway development team.
- I work on several of my own projects in background mode.
- Starting from September 2018 I occasionally participate in Netology online courses as a lecturer and methodist.
- Looking forward to participate in meetings or conferences as a speaker.

What I did for last three-four years:

- [Netology-Skyeng Meetup](#) speaker.
- [Moscow Python Meetup #54](#) speaker.
- As a teamlead I worked on several Django based projects.
- [Moscow Python Conf 2017](#) speaker.
- Took part in US customer's project where I used Python and Go languages.
- As a senior developer in Positive Technologies I worked on DevOps automation.
- [Moscow Python Meetup #43](#) speaker.
- I finished my part in development of web application for US customer as backend python developer.

I constantly learn something new about technologies I chose to use, or just interested in. A day is wasted if no new knowledge obtained.

The list of my current technologies:

- Python, Flask, Django, ApiStar, aiohttp (I use PyCharm and never found IDE that fits better for me)
- Go
- Neo4j, MongoDB
- PostgreSQL, Oracle, MySQL
- Redis, RabbitMQ
- Vagrant, Docker
- Vue.js, Javascript, TypeScript
- Scrum
- Swift (starting)

Technologies I used earlier:

- Assembler
- C/C++
- FoxBase/FoxPro/Clipper
- PHP
- Perl
- VBA (Microsoft Office Macros)
- 1C

In my projects I use Linux for development and production servers. I like Ubuntu, but I can work with other distributions too.

Education

Moscow Institute of law and economics

master of management, State and city management, 2003 - 2009

Interests

Family (wife, daughter and son)

Python; Go; Apple products; Podcasts, audiobooks, books; Apple/Yandex Music during work; Gym, Swim, Bicycle

I want to improve my English and learn Italian.