

Alexander Kovalev

Senior Go/Python developer, Teamlead

☎ +7(926)671-25-36

✉ ak@alkov.pro

🌐 <https://alkov.pro>

🐦 <https://twitter.com/alkovpro>

<https://linkedin.com/in/alkovpro> 

<https://github.com/alkovpro> 

<https://clck.ru/F5cBg> 

al.k0v 

Skills & Expertise

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

Experience

Go Teamlead at IVA Technologies (Hi-Tech Group)

January 2020 – Present

Our division develop soft-switch (VoIP server) with powerful yet agile architecture and all the features required it to be the proper fit for Telecom operator companies.

My team is working on the logic components (registration, routing, permissions, web-backend, rest-api, etc) while our C++ team is working on signaling and media services.

We deploy testing environment to a private server running each component in its own docker container. Technologies used here: Go 1.13 (with modules), PostgreSQL, GitLab (repo / CI / registry), socket.io for our frontend, REST API for third-party integrations, slightly modified JSON RPC as an internal protocol with streaming NATS as a transport.

Go Developer, Go Teamlead at DCLOUD

June 2019 – Present

I started as a developer, studied current code base, used instruments and practices, implemented several features and at some point replaced former backend teamlead, who switched to other projects.

We develop a web platform for UK customer. It allows landlords and tenants to find each other and rent a property in London. This product is in MVP stage – ready for beta start. Another product we started do develop for this customer – the similar platform for selling and buying property. Here I work on backend architecture, plan tasks for backend team, review code and control tasks progress.

These projects built as a set of microservices, deployed on GCP kubernetes cluster. Technologies used here: Go 1.13 (with modules), BPMS Zeebe, KeyCloak, MongoDB, PostgreSQL, kubernetes, GitLab (repo / CI / registry), GraphQL, gRPC. We also integrating with payment processing and other third-party services using REST and gRPC API.

Python/Vue.js Developer at DCLOUD

April 2019 – June 2019

I started as a python developer, and at some point a had to take frontend too.

We developed admin panel for internet advertising/seo company and its customers.

Software Developer at Yandex (Financial Division)

November 2017 – November 2019

I was 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. I can tell that I made several integrations for sensitive data exchange between our services and internal and external partners (i.e. Yandex.Money, Tinkoff bank, Alfabank). 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

Tepilo X

Used technologies: Go 1.13 (with modules), KeyCloak, MongoDB, PostgreSQL, kubernetes, GitLab (repo / CI / registry), GraphQL, gRPC, REST.

Web platform for UK customer. It allows property sellers and buyers to find each other and make a deal.

Mashroom

Used technologies: Go 1.13 (with modules), BPMS Zeebe, KeyCloak, MongoDB, PostgreSQL, kubernetes, GitLab (repo / CI / registry), GraphQL, gRPC, REST.

Web platform for UK customer. It allows landlords and tenants to find each other and rent a property in London. It includes integrations with payment processing services, <https://www.rightmove.co.uk/>, <https://www.zoopla.co.uk/>, <https://www.rentprofile.co/>, etc.

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.

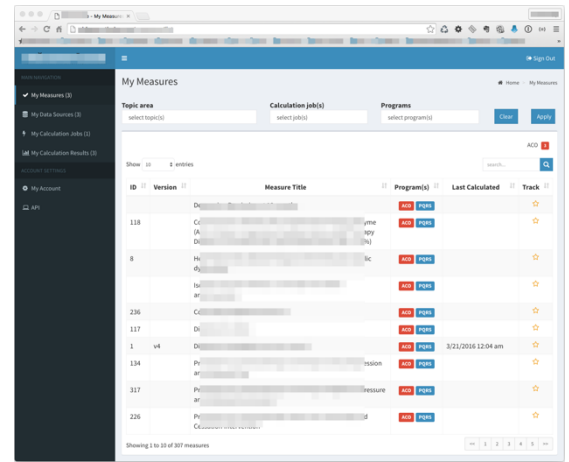
Application for accessing medical measurements related information (python backend)

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.

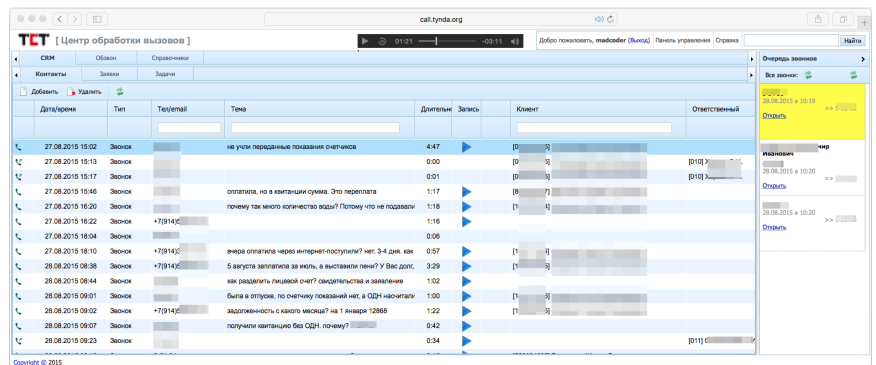


Call center

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.

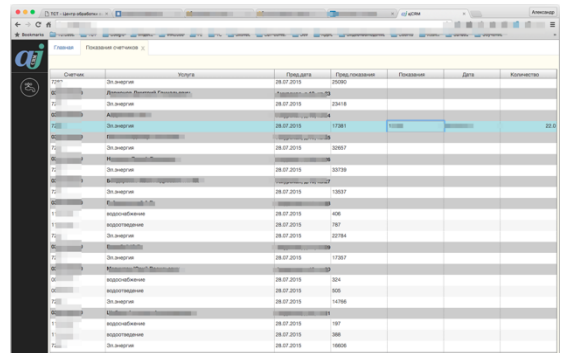


ajCRM

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.

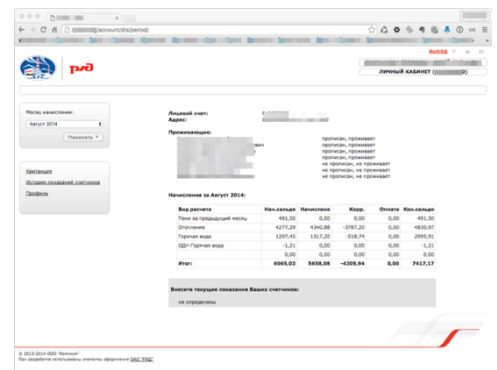


Private office for customers of utility company

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. And I like being Teamlead even better. In past several years I tried to work in some different occupations, never actually leaving programming. I'm realizing now 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 like to lead talented programmers working on some challenging project. Web application, for example.

I always in search for complex and interesting projects. What I like most is to write backend or command line tools in Go. Microservices, gRPC, docker, kubernetes, etc. I still like developing backend on Python using Flask, Django, aiohttp or whatever is needed.

My experience in IT had started in 1993. Since 2002 I started to use widely my knowledge of Accounting. I became an entrepreneur in 2004 and worked as self-employed all-in-one IT specialist for some time. Since then I used to work for several companies.

What I do in present:

- Go Teamlead at IVA-Technologies (Hi-Tech) (Soft-Switch Logic Development Team);
- Go Teamlead (remote) at a project for UK customer;
- I work on several of my own projects in background mode (these are mostly on hold now).

What I was doing last 4 years (2016-2019):

- Software Developer at Yandex (Payment System Platform Development Group);
- Worked on creating and lecturing new programming courses at Netology Group (online learning);
- I finished my part in development of web application for US customer as backend python developer;
- Senior Developer at Positive Technologies (DevOps automation);
- Speaker at [Moscow Python Meetup #43](#);
- Remote web-project Teamlead (Python/Vue.js);
- Speaker at [Moscow Python Conf 2017](#);
- Speaker at [Moscow Python Meetup #54](#);
- Speaker at [Netology-Skyeng Meetup](#).

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

The list of my current technologies and tools:

- Golang, gRPC, REST, GraphQL
- Python, Flask, Django, aiohttp, ApiStar
- Javascript, Vue.js, Typescript
- Kubernetes, Docker, Vagrant
- Zeebe, KeyCloak, etc.
- PostgreSQL, Oracle, MySQL
- Redis, RabbitMQ, Tarantool, Lua
- Neo4j, MongoDB

Technologies I used to work with:

- Assembler
- C/C++
- FoxBase/FoxPro/Clipper
- (js) Angular, dhtmlx
- PHP
- Perl
- VBA (Microsoft Office Macros)
- 1C 7.7 - 8.3 (Accounting software with powerful domain-specific built-in language)
- Asterisk (VoIP)

I prefer using Linux for development and production servers. Ubuntu mostly, but I can work with any *nix os.

Education

Moscow Institute of law and economics

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

Interests

Family (wife, daughter and son)

Go; Python; Apple products; Podcasts, audiobooks, books (in English mostly); Apple/Yandex Music during work; Gym, Swim, Bicycle

I want to improve my English and learn Italian.