



# Serghei Iakovlev

SOFTWARE ARCHITECT · TECHNICAL MANAGER

Kyiv, Ukraine

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*"Be the change that you want to see in the world."*

## Summary

High efficient and self-motivated software architect who enjoys finding elegant solutions to non-trivial problems. Focused on the goal and driven by visual sophistication and laser-sharp precision, I take pride in every finished project, and never stop learning along the way. I think every challenge can be solved efficiently with the right tool. So my way is to find the right tool for a particular problem.

Open Source evangelist, Python player, Lisp enjoyer and lifelong learner. I am proficient in C/C++, Python, PHP, SQL, Linux, Docker, Nginx. I got my first coding salary in 2004.

### My experience as an architect:

- I made the design of new features and internal products
- I made new features review and approvals
- Product performance improvements by choosing right tools and components
- Implemented PoC of internal systems
- Public API design

### My experience as a technical manager:

- R&D team managing and leaderships
- Coordinating with other managers
- Conducting performance reviews
- Delegating tasks
- Internal reports and meetups

## Education

### Russian New University (RosNOU)

B.S. IN APPLIED INFORMATICS IN ECONOMICS

Moscow, Russia

Sep. 2004 - Jun. 2008

## Courses & Certifications

### Jetbrains

PYTHON CORE

Jetbrains Academy

Sep. 2021 - PRESENT

### Jetbrains

KOTLIN DEVELOPER

Jetbrains Academy

Sep. 2020 - Oct. 2020

### Computer Science Center

HASKELL

Stepic

Dec. 2018 - Feb. 2019

### Yandex

C++ YELLOW BELT

Coursera

May. 2017 - Jun. 2017

### Yandex

C++ WHITE BELT

Coursera

Mar. 2017 - May. 2017

## Skills & Endorsements

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<b>Team Work</b>	Leadership, Problem Solving, Team Management, Expectations Management
<b>DevOps</b>	AWS, Docker, Kubernetes, Vagrant, Packer, Jenkins, TeamCity, GitHub Actions
<b>Back-end</b>	Django, Flask, Symfony, Laravel, Phalcon, Elasticsearch, REST API
<b>Front-end</b>	HTML5, CSS, SASS
<b>APM</b>	Newrelic, Grafana, Kibana, Jaeger
<b>Databases</b>	MySQL, SQLite, Redis
<b>Programming</b>	Python, PHP, C/C++, Go, Kotlin, Haskell, SQL, XML, Lisp, $\text{\LaTeX}$
<b>Languages</b>	Russian, English, Ukrainian
<b>Operating Systems</b>	Linux, macOS, Windows
<b>Development Tools</b>	CMake, IntelliJ IDEA, Emacs, Vim, Make, gcc, gdb, git, zsh, bash

## Employment History

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### airSlate, Inc.

*Kyiv, Ukraine*

R&D TEAM LEAD, TECH MANAGER

*Aug. 2021 - Dec. 2021*

- Researching the impact of services design on user experience and product performance.
- Development load tests using Scala, Gatling, InfluxDB, Prometheus and Grafana.
- Delegating tasks and conducting performance reviews.
- Coordinating with other managers.
- Development of experimental CI/CD tools, research in the field of new technologies.
- Public API design.
- R&D Team leadership.
- Internal reports and meetups.

### airSlate, Inc.

*Kyiv, Ukraine*

SOFTWARE ARCHITECT

*Jan. 2020 - Aug. 2021*

- Design of new features and internal products on field of workflow automation.
- New features review and approvals.
- Product performance improvements, new features review and approvals.
- Built and deployed overall service infrastructure utilizing Docker container, GitHub Actions, and several AWS stack(Including EC2, ECS, Route 53, S3, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- I have been management many tech leads.
- Internal reports and meetups.

### Zephir

*Washington, United States*

Co-OWNER

*Jan. 2016 - Aug. 2020*

- Core Team Member, Contributor, Maintainer, Co-Owner, Core Developer.
- My contributions included performance optimization and compilation speed, chasing bugs both in the compiler and kernel, unit testing, implementing new features in the language, maintaining projects, code review, releasing and more.

### Phalcon

*Washington, United States*

BOARD MEMBER

*Jan. 2015 - Aug. 2020*

- Core Team Member, Contributor, Maintainer, Co-Author, Core Developer.
- My contributions included performance optimization, security and stability fixes, unit tests, packaging for Ubuntu and Windows, CI/CD, translations, maintaining projects and more.

### PDFfiller, Inc.

*Kyiv, Ukraine*

SENIOR SOFTWARE ENGINEER

*Now. 2015 - Jan. 2020*

- Support PDFfiller.com and create new features and internal products.
- Implemented backend services and tools using C++, C, PHP, MySQL, DynamoDB, Elasticsearch, RabbitMQ.
- Product Dockerization, build service discovery using Consul, working with AWS stack, CI/CD design and implementation.
- Code review and interviews of new employees.
- Design and implementation monitoring and alerting tools based on ELK stack, InfluxDB, Slack and Grafana.
- Implemented internal Distributed File System (WebDAV like).
- Implemented a mass mailing service with analytics and statistics (Mailgun like).
- Implemented internal Chaos Engineering service to test the company's products and services.
- Internal reports and meetups.

### Genesis

*Kyiv, Ukraine*

SENIOR SOFTWARE ENGINEER

*Sep. 2014 - Nov. 2015*

- Implemented a mass mailing service with analytics and statistics (Mailgun like).
- Implemented backend services and tools using PHP, C, XSLT, MySQL (Percona).
- Internal reports and meetups.

## NetGame

SOFTWARE ENGINEER

Kyiv, Ukraine  
Sep. 2013 - Aug. 2014

- Development and support of gambling services.
- Implemented backend services and tools using Linux, Nginx, PHP, Yii Framework, PostgreSQL, JavaScript and Bazaar.

## Self-Employment

FULL STACK SOFTWARE ENGINEER

WWW  
Feb. 2009 - Aug. 2014

- I have done freelance work and been self-employed for 5 years here.
- Implemented projects for the National Association of Power Engineers of Russia, various businesses, E-Shops and freight carriers.
- Moderation Drupal Framework forum community and help newbies.
- Used stack: Linux, Apache, MySQL, PHP and JavaScript.

## Art. Lebedev Studio

SOFTWARE ENGINEER

Moscow, Russia  
Jan. 2008 - Dec. 2008

- Development new features for existing clients of the company.
- Used stack: Windows, PHP, XML, XLST, MySQL.

## Blog.ru

SOFTWARE ENGINEER

Moscow, Russia  
Dec. 2007 - May 2008

- Development new features for the blogging service and social networks.
- Used stack: Linux, Apache, PHP, JS, MySQL.

## Gamma Group

SOFTWARE ENGINEER

Moscow, Russia  
Sep. 2006 - Oct. 2007

- Support corporate websites and development new features.
- Used stack: Linux, Apache, PHP, JS, MySQL.

## Arsilor

JUNIOR WEB DEVELOPER

Moscow, Russia  
Feb. 2005 - May 2006

- E-shop development, maintenance of the company's websites.
- Used stack: Linux, Apache, PHP, Joomla/Mambo CMS, PHP Nuke, JS, MySQL.

## Tsar's courtyard

SOFTWARE ENGINEER

Moscow, Russia  
Jan. 2004 - Dec 2004

- Implemented solutions for automating accounting and management accounting.
- Used stack: Windows, Delphi, FoxPro, MySQL.

# Extracurricular Activity

## django-environ

MAINTAINER

2021 - PRESENT

- **Languages:** Python
- **Description:** A Python package that allows you to use Twelve-factor methodology to configure your Django application with environment variables.
- **URL:** <https://github.com/joke2k/django-environ>

## python-airslate

CREATOR, MAINTAINER

2021 - PRESENT

- **Languages:** Python
- **Description:** A Python client library has been designed to quickly and easily implement the airSlate REST API.
- **URL:** <https://github.com/airslate-oss/python-airslate>

## gstore

CREATOR, MAINTAINER

2020 - PRESENT

- **Languages:** Python
- **Description:** A simple tool to synchronize GitHub repositories of your organizations.
- **URL:** <https://github.com/sergeyklay/gstore>

## esup

MAINTAINER

2020 - PRESENT

- **Languages:** ELisp
- **Description:** A GNU Emacs Start Up Profiler.
- **URL:** <https://github.com/jschaf/esup>

## bnf-mode

CREATOR, MAINTAINER

2019 - PRESENT

- **Languages:** ELisp
- **Description:** A GNU Emacs major mode for editing BNF grammars.
- **URL:** <https://github.com/sergeyklay/bnf-mode>

## jaeger-client-php

MAINTAINER

2018 - PRESENT

- **Languages:** Apache Thrift, PHP
- **Description:** A client-side library that can be used to instrument PHP apps for distributed trace collection, and to send those traces to Jaeger.
- **URL:** <https://github.com/jonahgeorge/jaeger-client-php>

## Qless PHP

CREATOR, MAINTAINER

2018 - PRESENT

- **Languages:** Lua, PHP
- **Description:** PHP Bindings for Qless.
- **URL:** <https://github.com/pdfiller/qless-php>

## idea-plugin

MAINTAINER

2015 - 2020

- **Languages:** Java, Kotlin
- **Description:** IntelliJ plugin for editing Zephir code. Provides syntax definition, autocompletion and syntax check support.
- **URL:** <https://github.com/zephir-lang/idea-plugin>

## Codeception

TEAM MEMBER, MAINTAINER

2015 - PRESENT

- **Languages:** PHP
- **Description:** A full-stack testing PHP framework.
- **URL:** <https://github.com/Codeception/Codeception>

## Zephir

MAINTAINER

2016 - 2020

- **Languages:** C, Zephir, PHP, Zend Engine
- **Description:** A high level programming language that eases the creation and maintainability of extensions for PHP.
- **URL:** <https://github.com/zephir-lang/zephir>

## cphalcon

CORE TEAM MEMBER

2015 - 2020

- **Languages:** C, Zephir, PHP, Zend Engine
- **Description:** An open source web framework delivered as a C extension for the PHP language providing high performance and lower resource consumption.
- **URL:** <https://github.com/phalcon/cphalcon>

# Publications

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## Phalcon Cookbook.

<https://www.amazon.com/dp/B01MXDECCR>

CO-AUTHOR

2016

- Phalcon Framework Cookbook.