



Serghei Iakovlev

SOFTWARE ARCHITECT · TECHNICAL MANAGER

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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

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

Employment History

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

Phalcon Cookbook.

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

CO-AUTHOR

2016

- Phalcon Framework Cookbook.