

Aleksei Melezhik

Lead Devops / Platform Engineer

Contacts

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Self introduction

I have a strong skill set related to platform engineering and devops.

I have built quite a number of internal devops services, tools and automation frameworks covering various aspects of SDLC.

I can easily code on many programming languages including Python, Ruby, Perl, Raku, Powershell and Golang.

I can mix building of custom frameworks with use of well known systems and tools.

I can not only code but make a solid system design acting as a ubiquitous mediator between ops, devs and architects.

I love to convert confusing and tangled systems into simple and easy to maintain.

I can and love write tests to all my code. I can write any sort of tests - unit tests, integration tests, acceptance tests and UI tests.

I am very systematic and attentive to details. I love and I can document my code.

I can work both with legacy code, eventually bringing things in order, and yes I love to start green fields projects :-)

I am familiar with system design, algorithm and data structure concepts.

I can always find a balance in spending my work time when creating a proper design, write quality code, sharing knowledge with other and writing a documentation.

I am the author of many open source automation frameworks and active member of Raku language community (@melezhik)

Following is my job history and professional achievements for the last 15 years.

Job experience

Mar-2018 - Present

Chief System Engineer. EPAM Systems. US. <http://www.epam.com>

Act as architect and key developer in building and development of various CICD systems and frameworks. For numerous projects, customers and technical stacks (Azure Devops, GitLab, GitHub Action, Azure, GCP, K8s)

Work closely with architects, developers and operations acting as a key technical driver in devops processes.

Automation of openshift installation using standard installers and writing custom code.

Verification of complex k8s clusters configuration using numerous high level programming languages.

Building test automation frameworks to test cloud infrastructure state (Azure, K8s) using various high level programming languages.

Building various automation frameworks to programmatically generate CICD pipelines (Ado pipelines, jinja templates, Python, Powershell).

As result has successfully built and maintained hundreds of CICD pipelines for dozens of projects, dramatically simplifying maintenance and in scale support, reducing necessity in manual pipeline coding via YAML.

Building and maintaining security checks using variety of tools and third part providers like WhiteSource, Trivia, VeraCode, Virus Total, SSL Labs, Fortify.

Jan-2015 - Mar-2018

Senior Devops Engineer, EPAM Systems. Russia. <http://www.epam.com>

Automation of AWS based infrastructure for big pharmacy/bio tech customer with Ruby and Opscode chef cookbooks.

Development of http tests automation framework (Perl, http, Bash) as a result has tremendously increased confidence in deployment for dozens java web applications.

Automation and integration with Artifactory repository using Artifactory Rest API

Debugging and troubleshooting java based applications (Java/Tomcat/Linux)

Jan-2007 - Dec-2014

Lead devops engineer. Senior Software Engineer, Adriver LTD. Russia. <https://www.adriver.ru/>

As a lead devops:

Has built highly complex and easy to maintain build and deployment system with nice UI, tools: Ruby on Rails, Devise, Sinatra, Local CPAN, git.

Being an advocate and pioneer of devops principals, acting as a bridge between ops and developers teams.

Developing and maintaining numerous automation and monitoring tools, using Ruby, Sinatra and Ruby on Rails, RSpec.

Developing complicated UI tests for numerous web backends using Ruby, Selenium, Capybara and Cucumber.

Helping developers and operation departments cooperation, teaching operation people start working with chef.

As senior backend developer:

Has built a complex internal billing system, using Perl, Postgresql, Stored procedures, Postgresql rules.

Developing numerous internal and external Web APIs (Perl, Catalyst, FastCGI), working as a part of big development team. Writing unit test using Test::More

Technical stack - Perl, Nginx, Postgresql, MySQL, FastCGI, Linux

Skills

- Clouds - extensive experience with Azure/Azure Devops, OpenStack, GCP
- Kubernetes - AKS, Openshift, Docker
- Repository managers - Atifactory, Alpine apk, Debian dpkg, Gentoo ebuild
- Programming languages - many years of experience building automation systems with Python, Raku, GoLang, Perl, Powershell, Ruby, Bash
- Algorithms and data structures
- CICD frameworks - Azure Devops, GitLab, GitHub Actions, Jenkins, Travis
- Infrastructure as a code - Terraform, ARM templates, Azure Biceps
- Automation and configuration management tools - Opscode chef, Ansible, Sparrow
- SCM - git, subversion
- Databases - MySQL, Postgresql
- Software based storage - ceph
- Networking - TCP/IP stack
- Operations systems - Debian/Ubuntu/Alpine/Arch. Windows servers.
- Linux kernel concept. OS fundamentals.
- Testing Frameworks - Test::More, Pytest, RSpec, Chef Inspec, Cucumber

- UI tests - Ruby capybara / selenium
- Language Package manager and build tools - CPAN/Ruby gems/PIP/zef

Education

Saint-Petersburg State University, Russia.

Faculty/College: Physics.

Degree (diploma): Master.

Specialty: Computational Physics

My open source projects

I am an active member of [Raku](#) community, @melezhik

My actively maintained open source projects:

- ci.sparrowhub.io - SparrowCI - super fun and flexible CI system with many programming languages support
- sparrowhub.io - Repository of Sparrow plugins

My github profile with numerous repositories:

github.com/melezhik

My public talks

The Raku Conference. 2022.

- [Tomtit - Raku Task Runner](#)

The Raku Conference. 2021.

- [5 minutes introduction into Sparrow](#)
- [5 minutes introduction into Bird](#)

My blogs

- [Raku Advent](#) - my Raku Advent blogs
- <https://medium.com/@melezhik2> - my Medium blog
- <https://dev.to/melezhik> - my dev.to blog
- <https://sparrowdo.wordpress.com> - some my old still interesting posts about Sparrow/Sparrowdo

Awards

I am a Opscode Chef Cookbooks Contest [runner up](#) in 2011.