

Aleksei Melezhik

Principal Devops/Automation Engineer with Focus on Platform Engineering.

Contacts

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Self introduction

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

I code on many programming languages including Python, Ruby, GoLang, Perl and Powershell.

I am the author of many open source automation frameworks and active member of Raku language community.

I do system design and implement existing solutions, wearing many hats at the same time.

I am very systematic and attentive to details. I love document my code in a simple and

easy to ready manner.

I can work both with legacy code, eventually bringing things in order and starting green fields projects.

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

I can always find a good balance between design, efficiency and code quality.

Job experience

Mar-2018 - Present - Chief System Engineer. EPAM Systems. US. <http://www.epam.com>

Building comprehensive CICD systems from the scratch, implementing infrastructure as a code and devops best practices for multiple enterprise level customers.

Architect and key developer for various platform engineering services and tools.

Technical Stack - Azure, Azure Devops, Artifactory, K8S/Openshift, Python, Powershell, Perl, Raku, GitOps

Specific tasks performed:

- Building Azure devops pipelines using code generator pattern, Python and Jinja templates
- Developing various Python libraries for Azure devops pipelines - automation via RestAPI and http client
- Maintaining, developing and integration of security check pipelines:

WhiteSource, Trivia, VeraCode, Virus Total, SSL Labs, Fortify using ADO pipelines and Powershell

Jan-2015 - Mar-2018 - Senior Devops Engineer, EPAM Systems. Russia.
<http://www.epam.com>

Senior devops, implementing configuration management and infrastructure as a code for big pharma/bio tech customer.

Specific tasks performed:

- Automation and integration with Artifactory repository using Artifactory Rest API
- Maintaining artifactory repositories for multiple dev teams

Stack - Opscode Chef, Ruby, Perl, AWS. Debugging and support java applications (Java/Tomcat)

Jan-2007 - Dec-2014 - Lead devops engineer / Senior Software Engineer, Adriver LTD. Russia. <https://www.adriver.ru/>

As lead devops:

Building from the scratch internal build and monitoring systems (Ruby on Rails / Sinatra / Local CPAN), servers provisioning (chef).

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

Stack - Opscode Chef, Ruby on Rails, Ruby, SVN/Git

As senior backend developer:

Developing internal and external Web APIs within team of developers (Perl, Catalyst, FastCGI)

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

Skills

- Clouds - extensive experience with Azure/Azure Devops, OpenStack
- Kubernetes - AKS, Openshift, Docker

- Repository managers - Atifactory, Alpine apk, Debian dpkg, Gentoo ebuild
- Programming languages - many years of experience building 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

- <https://medium.com/@melezhik2> - Medium blog
- <https://dev.to/melezhik> - dev.to blog
- <https://sparrowdo.wordpress.com> - Sparrow/Sparrowdo blog

Awards

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