Mikhail Bakulin

SOFTWARE ENGINEER, BACKEND DEVELOPER

Age: 31

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About

I'm very passionate about my work. I have positive response to any ideas and I know how to work in a team, how to convey my point of view calmly and reasonably. I write clean and concise code and I love well-written documentation. At work I prefer to show healthy perfectionism and attention to details, as work consists of many small things. I'm eager to learn a new technology if it appropriate for the task.

I have a desire to apply my skills in the best way and for me, it means to have a greater influence and to enrich other's lives. Not only because it makes me feel better about myself, but also because it's a great opportunity for solving new and challenging puzzles, which is always exciting.

IT skills

PHP

5 years

- Frameworks: Symfony 4, Yii2
- Version control system: Git (Git flow)
- Testing: Codeception, Selenium, PhpUnit, Mockery
- SOLID, KISS, DRY
- PSR

Go

1 year

- Microservice architecture
- Frameworks: Echo, go-micro

- Package manager: Glide

Databases

- Relational: PostgreSQL, MySQL
- Document-oriented: MongoDB
- Search engines: Elasticsearch
- Key-value: Redis, Memcached

DevOps

Local environment setup: Docker + Docker-compose

Orchestration: Kubernetes

Message oriented middleware

RabbitMQ, NATS, mangos(nanomsg)

Javascript

NodeJS, ReactJS, Webpack, ES6

Html5 & Css3

Responsive Web Development, HTML5 Boilerplate, SASS, SEO, Bootstrap

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Misc

Python, XDebug, BlackFire, Arch Linux, Z shell, PhpStorm

Relevant experience

July 2017 - present

Senior backend developer

admitad GmbH

- One requirement was to get familiar with Go in a short period of time
- Involvement in a broad variety of tasks from architecture to deployment
- Software design using microservice architecture
- Documentation of code styles and best practices for newcomers and creation of local development environment setup using Docker
- Development using Scrum methodology
- Code review

September 2016 - July 2017

Senior backend developer

TASS

- Involvement in the design and creation of new company applications using a service-oriented approach
- Support and refactoring code of the legacy app(up to 600rps)
- Development of a company webservices based on the Yii2 framework
- Documenting technical solutions in Confluence
- Organizing meetups for collegues to share knowledge and help to learn new technologies

September 2014 - September 2016

Full-stack developer (middle)

Informika

- Development of web-applications and services based on the Symfony framework
- Participation in the discussions on the project architecture
- Refactoring of problem areas
- Writing project documentation

March 2012 - September 2014

Leading Information Systems Engineer

Institute for Spectroscopy RAS

- Development and refactoring code for official ISAN website
- Writing scripts for parsing data about employees and scientific publications from plain text
- Configuring and administering ISAN network hardware
- Ensuring the operability of the local network

June 2009 - March 2012

Engineer OMOI, Junior Researcher

Troitsk Institute for Innovation and Fusion Research (TRINITI),

Full time postgraduate study

Projects

Admitad Widgets

- Widgets is a kind of advertisement with real-time pricing on goods from partner marketplaces
- The core of application was written in Go and optimized for a high performance, widget constructor and partner accounts was built using Symfony
- All technologies and tools for the specific needs of the application requirements was picked during process of analyzing and benchmarking Open Source solutions that are available on the market
- Product list is formed dynamically based on location of the user and contents of the page that contains widget
- Advertisers have the ability to limit and direct ad-traffic the way they need

TASS Terminal

- News selling and distributing system
- Real-time app for TASS news feed subscribers
- Decoupled system, frontend uses backends API to authenticate user and gather data
- Backend using messaging queue to perform heavy tasks, like adding new material to search index, auto categorization and tagging
- Allowed delay after news have been published is about two seconds
- User recieve all updates through messaging queue and websocket (NodeJS)
- Backend on Yii2 framework, frontend on ReactJS
- API using JSON-RPC with RAML specification

RESH

- Federal project providing free online courses for students
- Creating a service for lessons publisher
- Lesson is uploaded as an archive, then it gets unpacked, video gets transcoded and prepared for streaming
- Creating a service for video transcoding based on ffmpeg
- Extracting the structured information about the tests(XML, IMS QTI), contained in the lesson, building a data model based on that data
- Currently on aprobation in region schools

Photobank

- Stock photos of the Russian Geographical Society
- Designing a data model for the service of loading and storing photos
- Asynchronous processing of photos in queues (RabbitMQ)
- Defining programmatically the main palette of a photo, comparing photos, searching duplicates
- Frontend: development of drag'n'drop plugin, autoload scroll and slider

window.edu.ru

- Huge database of educational resources for students and teachers
- Migrating to Symfony2
- Caching and query optimization
- Full-text search using ElasticSearch

Education

National Research Nuclear University MEPhI

Engineer-physicist, specialty "Physics of kinetic phenomena"

2003-2009