Mikhail Bakulin

BACKEND DEVELOPER

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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.

Technical skills

PHP

5 years

- >=5.3, 7.0
- Frameworks: Symfony (^2.7, ^3.0), Yii2
- Version control system: Git (Git flow)
- Testing: Codeception, Selenium, PhpUnit, Mockery
- SOLID, KISS, DRY
- PSR

Databases

5 years

- Relational: PostgreSQL, MySQL
- Key-value: Redis, Memcached

Javascript

4 years

NodeJS, ReactJS, Webpack, ES6

Html5 & Css3

5 years

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

DevOps

Local environment setup: Docker, also - Vagrant, Ansible

Message oriented middleware

RabbitMQ, Gearman

Full-text search

Elasticsearch, Sphinx

Misc

Python, XDebug, BlackFire, Ubuntu, Z shell, PhpStorm

Portfolio

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

Relevant experience

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 Yi2 framework
- Code review and help for junior fellow employees
- Documenting technical solutions in Confluence

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

Education

National Research Nuclear University MEPhI

Engineer-physicist, specialty "Physics of kinetic phenomena"

2003-2009