

# Mikhail Klimenko

## Software Engineer



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Enthusiastic software developer with Engineers Degree in computer systems software and 21 years of hands-on experience in developing comprehensive software projects including 8 years of Ruby backend development. A detail-oriented team player with excellent analytical skills and a passion to keep things in order.

### Main Skills

Ruby	PostgreSQL	Ruby on Rails	Git
Python	MySQL	Sidekiq/Resque	Docker
JavaScript	RabbitMQ	Rspec	Kubernetes
SQL	Redis	FastAPI	ArgoCD
HTML/CSS	Elasticsearch	Flask	Gitlab
	Clickhouse	Node.js	Bitbucket
		React	Azure
		jQuery	Google Cloud
			Platform
			CI/CD
			CircleCI
			Heroku
			Jira

  

Kibana
Sentry
Prometheus
Grafana
DataDog
Azure
AppInsights
NewRelic

### Education

**Engineer's Degree at specialty "The software of computer aids and automated systems"**  
*Moscow Engineering Physics Institute, Russia*

### Experience

#### since 2023-07 **Machine Learning software and infrastructure engineer**

*PressReader (Vancouver, Canada, remote)*

Premium newspapers and magazines delivered on your digital device globally

- As a solo developer dived into legacy event-based content processing machine learning pipeline, reworked CI/CD for a new cloud platform, rejuvenated development procedures
- Designed scalable infrastructure for massive content reprocessing events using microservices, Kubernetes scaled jobs, Argo Workflows
- Detected bottlenecks, optimized performance and memory consumption by active usage of asynchronous processing and data streaming, and reduced infrastructure expenses

#### 2021-03 – **Ruby on Rails Developer**

*EvidentPoint (Vancouver, Canada, remote)*

E-Reading, e-learning and digital publishing provider

- As a backend developer and, later, a technical lead, was a part of a cross-functional team on designing and implementing e-learning portal
- Making use of third-party service to implement workbooks reading and testing functionality for teachers and students
- Implement learning management systems integration via LTI protocol

- Drive the initiative on incremental overhaul of the legacy parts of the product using Ruby on Rails and React combination
- Advocated and implemented a comprehensive Bitbucket Pipelines for continuous integration with code verification unittest and end-to-end autotests execution, and deployment process to allow automation of previously manually done procedures
- Finding bottlenecks and improving backend performance from optimizing SQL queries and eliminating N+1 requests to implementing caching with up to 75% response time decrease

**2019-09 – Ruby on Rails Developer**

**2021-03** *Moteefe via Meyvn Digital (London, UK, remote)*

The Global award-winning Print-on-demand platform for e-commerce

- Worked with a cross-functional globally-distributed team of 20+ people: frontend and backend engineers, designers, QA
- Developed new features from planning and analyzing a solution to production deployment strategies
- Detected and worked on resolving bottlenecks and performance issues
- Implemented bindings for sending emails using external service
- Mentored and onboarded people, collaborated in a team and across different teams
- Smoothed CI/CD processes by fixing flaky tests, implementing automated styleguide checks and git hooks
- Implemented an auto-generated OpenAPI documentation with request tests running against it

**2016-10 – Ruby on Rails Developer**

**2019-09** *Onlinetours.ru (Moscow, Russia, remote)*

The company provides tours searching services and resells tours from many providers leveraging in-house high-performance search engine solutions to regular customers, independent agents, and professional agencies.

- Maintained legacy-rich Ruby on Rails monolith application with 80k+ LoC in a multi-tier software environment as a part of an agile fully-remote software team
- Daily use of Ruby on Rails, Roda, PostgreSQL, Elasticsearch, Redis, Clickhouse, RabbitMQ, Sidekiq, Docker, Kubernetes, Git
- Supported rich REST APIs for the internal and external user
- Ensured high code quality with RSpec tests, TDD and automatic documentation generation
- Constantly worked on overall project's reliability, performance, speed, and resources consumption reduction with extensive use of tools like Kibana, NewRelic, Honeybadger, Sentry, Prometheus
- Planned, designed and implemented new features and services for clients and partners in close cooperation with stakeholders
- Helped other team members by mentoring junior developers, sharing knowledge and reviewing pull requests
- Created open source QiwiPay payment service bindings for Ruby (qiwi-pay gem (<https://rubygems.org/gems/qiwi-pay>)) and some more open source gems

**2016 Freelance programmer (part-time, remote)**

- Helped customer to plan and implemented new features of commercial real estate sale and rent bulletin board application
- Design and implement commercial vehicles lease and sale bulletin board application
- Use of Ruby on Rails, PostgreSQL, Elasticsearch, JavaScript, jQuery, Bootstrap

**2015 Contractor programmer (part-time, remote)**

*Vesnik Information Systems Ltd, Nicosia, Cyprus*

- Implement dynamic interface generation for ERP system
- Use of Delphi, DevExpress VCL, PostgreSQL

**2004-10 – Instrumentation Systems Engineer**

**2016-10** *Federal State Unitary Enterprise "MAYAK" Production Association (Ozersk, Russia)*

The Federal State Unitary Enterprise manages a wide variety of chemical and nuclear production chains.

- Enhanced water pump station instrumentation system with interactive display and report abilities (Windows, MasterSCADA, Linux, HTML, JavaScript, jQuery)
- Simplified company's computer equipment accounting processes by developing specialized software (Windows, Delphi, SQL Server)
- Renovated nuclear facility's distributed instrumentation and alarm system's hardware and software (Linux, C++, Qt, Python, LINTER DBMS)

**2003-08 – System administrator**

**2004-09** *South Ural State University (Ozersk, Russia)*

- Local area network and computer hardware maintenance
- Windows domain administration

- Linux-based internet access server administration

**2002-09 – System administrator and web developer**

**2003-05** *Astra LLC (Ozersk, Russia)*

- Maintained high availability rates of dial-up services
- Web development (HTML, CSS, Perl, PHP)

## Code samples and open-source contributions

- **qiwi-pay gem** (<https://github.com/OnlinetoursGit/qiwi-pay>)
- **DataDog's Rails integration enhancement** (<https://github.com/DataDog/dd-trace-rb/pull/1217>)
- **Dalli gem bugfix** (<https://github.com/petergoldstein/dalli/pull/728>)
- **Several fixes to clickhouse gem** (<https://github.com/archan937/clickhouse/pulls?q=is%3Apr+author%3Amichaelkl>)
- **RabbitMQ schema visualizer** (<https://github.com/michaelkl/rmq-schema-visualizer>)
- **yajl-rest – streaming JSON arrays parser** (<https://github.com/michaelkl/yajl-rest>)
- **formtastic-fake\_input – fake input class for Formtastic** ([https://github.com/michaelkl/formtastic-fake\\_input](https://github.com/michaelkl/formtastic-fake_input))
- **capistrano-delayed-job monit process groups support** (<https://github.com/capistrano-plugins/capistrano-delayed-job/pull/7>)
- **Several fixes to openSUSE Open Source Event Manager** (<https://github.com/openSUSE/osem/pulls?q=is%3Apr+author%3Amichaelkl>)
- **nanoc-gzip-filter edits** (<https://github.com/GregOnNet/nanoc-gzip-filter/pull/1>)
- **OpenStreetMap mapping** (<https://www.openstreetmap.org/user/michaelkl>)
- **Code Abbey profile** ([http://www.codeabbey.com/index/user\\_profile/michaelkl](http://www.codeabbey.com/index/user_profile/michaelkl))
- **HackerRank profile** (<https://www.hackerrank.com/michaelkl>)