Andrei Subbota

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GitHub(https://github.com/numbata)   LinkedIn(https://www.linkedin.com/in/andreisubbota)

Senior Backend Engineer

Software engineer with over 13 years of experience in Ruby, including Ruby on Rails, and backend development in general. Focused on building scalable applications, improving system performance, and mentoring developers. Interested in clean code, best practices, and maintainable solutions.

Technical Skills

- **Backend Development:** Ruby (Ruby on Rails, Grape, Dry-rb), RESTful API design, microservices architecture, domain-driven design
- **Performance Optimization:** Database query optimization (PostgreSQL, MySQL), code profiling, memory management, caching strategies
- **Infrastructure & DevOps:** Docker, CI/CD pipelines, deployment automation, infrastructure as code
- **Scalability & Reliability:** Event-driven architecture, message queues (RabbitMQ, Kafka), distributed systems, fault tolerance
- **Software Engineering:** Code refactoring, technical mentorship, legacy system modernization, test-driven development

Work Experience

Mentimeter (Stockholm, Sweden) | Senior Ruby Developer
October 2021 – Present

Work on improving system architecture by identifying key bottlenecks and proposing scalable solutions. Provide technical mentorship to engineers and support cross-team collaboration by sharing knowledge and best practices. Suggest structural changes to enhance team ownership and workflow efficiency. Work on internal tooling and contribute to the development of an in-house framework based on Grape to improve API efficiency and maintainability.

Servers.com (Limassol, Cyprus) | Backend Developer
October 2017 – September 2021

Maintained and improved internal services by refactoring legacy code, optimizing performance, and ensuring system stability. Focused on Ruby development, troubleshooting existing functionality, and implementing incremental enhancements to improve efficiency and maintainability. Worked on a hardware provisioning microservice that streamlines the automation of server bootstrapping and enables faster provisioning of hardware servers.

Previous Experience

Before to **Servers.com**, I worked as a **Backend engineer** at several companies, focusing on improving system performance and scalability. I led efforts to refactor large legacy code bases, making them more maintainable and reducing technical debt. I contributed to database migrations (e.g., MongoDB to PostgreSQL) that improved application efficiency, and worked to optimize job processing systems using Sidekiq and RabbitMQ. I also mentored junior engineers and participated in architectural decisions for complex backend systems.

Education

Samara State University
BSc in Mathematics (2006)
Thesis: *Application on Metric Model in Text Processing*

Languages

- **English** – Professional working proficiency
- **Russian** – Native

Open Source Contributions

- **Ruby Grape** – Fixed critical bugs in parameter validation, error handling, and route generation to improve API reliability.
- **Grape-Swagger** & **Grape-Swagger-Entity** – Enhanced OpenAPI documentation by refining request body schemas and enabling custom extension metadata.
- **Ruby on Rails** – Patched ActiveRecord to support autosave callbacks in STI, ensuring proper handling of nested attributes.

- **Capistrano DB Tasks** – Added ENV variable support and configurable compression, plus resolved configuration issues for seamless DB syncing.
- **Sequel** – Optimized unique validations to reduce database load and boost performance.
- **SuperDiff** – Resolved regex matching issues in RSpec diff outputs, enhancing testing robustness.
- **RuboCop-Sequel** – Introduced default configurations that streamline linting and enforce best practices.
- **Geminabox** – Updated support for RubyGems' compact index API, ensuring continued compatibility and improved performance.

Professional Interests

- System performance tuning & scalability, refactoring.
- Mentoring and team development
- Exploring new backend technologies