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 Backend Engineer
October 2021 – Present

At Mentimeter, I design and refine backend architecture, ensuring scalability and system efficiency. I contributed to the development of an in-house framework based on Grape, streamlining API management and improving maintainability. In addition to optimizing performance and background processing, I mentor engineers and advocate for best practices in backend development. Working closely with teams across the company, I help align architecture with business goals, improving collaboration and accelerating development workflows.

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 joining Servers.com, I worked as a **Backend Engineer and Technical Lead** at several companies, focusing on modernizing Ruby on Rails applications, improving system performance, and optimizing database efficiency. I led efforts to upgrade legacy codebases, migrate databases from MongoDB/MySQL to PostgreSQL, and containerize applications with Docker. I also automated deployments using Capistrano and Ansible, reducing manual overhead and improving reliability. In addition to hands-on development, I mentored engineers, conducted technical interviews, and contributed to architectural decisions for large-scale 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

- Passionate about designing high-performance backend systems and scaling distributed architectures.
- Enjoy mentoring engineers and fostering best practices in backend development.
- Always exploring new technologies in performance optimization, observability, and DevOps.