

# Anton Davydov

## Software Architect

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## About

Helping business solve problems, grow technical culture and developers understand business. Active OpenSource activist and contributor. Hanami and dry-rb core developer.

I'm trying to be on the cutting edge of technology. Besides I have communication skills and meet deadlines. I'm interested in distributed systems, data evolution, communication between different services, architecture problems and functional programming.

## Profession experience

### **JUNE 2020 - CURRENT TIME, CONSULTING, SOLUTION ARCHITECT**

Worked as an independent architect with two different clients. I helped with getting business requirements and logic, detecting the importance of each business feature. Also, I designed a technical solution based on business requirements, current implementation, and available technical and non-technical resources. I helped with migration from monolith to SOA and helped with understanding and researching around necessary infrastructure for SOA.

I worked on several major tasks at this time:

- Got necessary requirements, designed and helped with implementation for a new version of billing for internal employees;
- Got necessary requirements and designed solution for item synchronization in orders;
- Designed a new implementation for roles in the company based on ABAC paradigm;

**Domains:** Ecommerce, advertising, billing and accounting, integration with different systems, SOA.

**Database:** postgresql, redis, big query, kafka, rabbitmq, elastic search, prometheus.

**Languages:** ruby, javascript, node.js, go, elixir, java.

### **JULY 2019 - MARCH 2020, TOPTAL, BACKEND ARCHITECT**

I developed, researched, documented and managed migration to service-oriented architecture while I was working in toptal. I researched technologies and practices which toptal are using for migrating to the service and build new architecture. I supported several teams that extracted a new functionality to separate services and provided them feedback and helped to solve problems that they faced on this work. Also, I supported different integration with third-party providers and helped to integrate a new architecture of data pipelines to the company. Worked on the domain and technical documentation related to SOA and prototyped and implemented several tools that were useful in the company.

Also, I managed initiatives from different teams and was a team lead of RND team which worked on one service extraction. Also, I created and managed research groups for understanding better approach and tools which can be used in toptal.

**Domain:** Hiring developers, billing and accounting, integration with different systems, SOA.

**Database:** postgresql, redis, big query, kafka, elastic search, prometheus.

**Web:** dry-\*, rails, hanami.

**Languages:** ruby, javascript, node.js, go, elixir, java.

## **FEBRUARY 2017 - MAY 2019, HIPPO, SOFTWARE ENGINEER/SOLUTION ARCHITECT**

Growing and maintaining backend part for the hippo infrastructure. Building business features, integrations with other services, fax messages delivery. Splitting monolith application to service based architecture, performance improvements. Also, helping build backend on node.js and java langs.

Making new backend architecture, working with data and helping team understand business problems and understand how to solve them. Created several medium projects with hanami framework. Also, supported libraries and made internal backend ecosystem better to other hippo developers.

**Domain:** US healthcare systems, medical drugs and how to sale it.

**Database:** postgresql, redis, amazon kinesis, kafka, elastic search, prometheus.

**Web:** dry-\*, rom-\*, roda, hanami, type script.

**Languages:** ruby, javascript, node.js, go.

## **FEBRUARY 2016 - FEBRUARY 2017, FREELANCE, RUBY DEVELOPER**

Maintained and realised new features for 3 large project. Refactored old (6+ year) projects. Worked with advertising system and application which provide assistance for expats. Created several medium projects with sinatra and dry-\* stack.

**Database:** postgresql, redis, elasticseach.

**Web:** rails, dry-\*, roda, event machine, celluloid-io, reel.

**Languages:** used ruby, javascript.

## **SEPTEMBER 2015 - FEBRUARY 2016, RCNTEC, RUBY DEVELOPER**

Created large number of micro services and medium projects and also supported a few large projects.

Worked on realtime (chat) and geo applications (tracking objects on the map), also created command line tools for box services rollout and file converting services. Contributed to OTP (one time password) application. All of this applications where created with fault-tolerant architecture (from 3 and more nodes).

**Database:** elasticseach, couch base, cassandra, rabbitmq.

**Web:** hanami, rails, sinatra, event machine, celluloid-io.

**Languages:** used ruby, javascript. Also used mruby with nginx as well as for creating cli applications.

## **OCTOBER 2013 - JULY 2015, DO INTERACTIVE, RUBY ON RAILS DEVELOPER**

Created and maintained 5 large projects. Worked on social networks data aggregation and data parsing. Also developed micro loans and video streaming projects.

**Database:** postgresql, redis.

**Web:** rails, sidekiq, base gems (like devise, active admin, etc).

**Languages:** used ruby, javascript.

## DECEMBER 2012 - OCTOBER 2013, FREELANCE, RUBY ON RAILS DEVELOPER

Created and maintained ruby on rails projects.

**Database:** postgresql, redis.

**Web:** rails, sidekiq, base gems (like devise, active admin, etc).

**Languages:** used ruby, javascript.

## OpenSource contribution

I am a **hanami** (<http://hanamirb.org/>) and **dry-rb** (<http://dry-rb.org>) core developer and **sidekiq** (<http://sidekiq.org/about>) committer.

Also you can find my commits in the following projects: ctystall, ruby, rails, sinatra, etc.

I created:

- **sidekiq-statistic** (<https://github.com/davydovanton/sidekiq-statistic>) - Improved display of statistics for users sidekiq workers and jobs. This is a Google Summer of Code (<https://www.google-melange.com/gsoc/homepage/google/gsoc2015>) project;
- **kan** (<http://www.kanrb.org>) - Simple, functional authorization library and role management for ruby.
- **makedecision** (<https://github.com/makedecision-org>) - platform for making team decision in async mode.
- **safelylaunch** (<https://github.com/safelylaunch>) - opensource SaaS solution for feature toggles
- **cookie\_box** ([https://github.com/davydovanton/cookie\\_box](https://github.com/davydovanton/cookie_box)) - platform for managing and searching starred repos from github.
- **shallow\_attributes** ([https://github.com/davydovanton/shallow\\_attributes](https://github.com/davydovanton/shallow_attributes)) - Simple and lightweight Virtus analog without any dependencies;
- **OSSBoard** - (<https://github.com/ossboard-org/>) public board for open source issues and mentoring (<http://www.ossboard.org>).
- **rubyjobs** - (<http://rubyjobs.dev>) place for ruby related vacancies.

And also I am an organizer of **moscow.rb** (<http://moscow-rb.org>), a author of technical telegram channel **pepegramming** (<https://t.me/pepegramming>) and making a **streams** about programming (Russian language only) ([https://www.youtube.com/playlist?list=PL6n1fvXhQN4kOm\\_HhBDJrynj6\\_dcl7VJP](https://www.youtube.com/playlist?list=PL6n1fvXhQN4kOm_HhBDJrynj6_dcl7VJP)).

## Education

2010 - 2015, Bauman Moscow State Technical University.