

Anton Davydov

Software Architect

phone: +7(968) 663-81-28

email: me@davydovanton.com

github: github.com/davydovanton

site: davydovanton.com

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 DDD, system engineering, 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 solution architect with 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 with several companies at this time:

May 2021 - Current time, 3commas

I worked with two different projects: solution for trading technical analysis and backtesting.

Technical analysis project: I helped to migrate from pull (when the trading bots get signals for start) to push strategy (when the service pushes all signals which trigger bots for start). For this, I analyzed functional requirements and got architecture characteristics and future plans from the business. Based on this information I prepared a new async solution and helped with choosing technology that meets the characteristics and future development. Also, I helped to scale this service to 200k/sec signal calculations. I prepared a zero downtime migration plan and managed one team which worked on the implementation.

Backtesting project: I helped with understanding how to build a backtesting platform to simulate trading strategies for one-year-old data from different exchanges. For this, I also got all functional requirements, architectural characteristics, and limits based on people and past technical solutions. I designed a technical solution and managed two teams to build the solution together.

Domains and keywords: FinTech, crypto trading, SOA, EDA, highload.

Database: postgresql, redis, kafka, clickhouse, prometheus.

Tech: ruby, rails, dry-*

April 2021 - Current time Webium

I helped with the total rewriting of the platform to a new version and a new language (from ruby to python). I worked with the business for getting all functional requirements, business limitations and found architectural characteristics. I created a few architectural views based on this information (context, functional, and deployment) and helped with designing and describing complex business processes. Also, I prepared a zero downtime migration plan and helped the developer team to understand the system better and make the system meets all characteristics.

Domains: EdTech, SOA.

Database: postgresql, redis, rabbitmq.

Arch keywords: SOA

Tech: python, Django

September 2021 - October 2021 peatio

I helped to scale the OSS cryptocurrency exchange platform for better performance. The initial idea was to replace the exchange engine to java based solution, but after analysis, we decided that we can stay with the current solution. I helped with setting up rabbitmq queues and exchanges

Domains: cryptocurrency exchange, EDA, highload.

Database: postgresql, redis, rabbitmq

October 2020 - September 2021 Condor

I helped with designing an accounting platform for US-based BioTech companies. Worked with business, business analysts, and domain experts to understand and describe all business processes and functional requirements. After that, I prepared a high level technical solution with a step-by-step plan for achieving startup rounds.

Domains: BioTech, billing and accounting, integration with different systems, SOA.

June 2020 - October 2020 iGoods

I helped with creating a new billing and accounting service for internal employees (pickers and couriers). I worked with the fin department to understand all functional requirements, architecture characteristics, risks, and business drivers of a new system. The end solution was a separate event-driven service for calculating salaries and making payments to employees.

I created context and functional views, data model, and deployment view. Also, created a working solution with ruby and dry-*/hanami and after that, handed over the solution to the internal development team. Also, I prepared the integration between the legacy system and a new system.

The other project was related to role system. I designed a new implementation for roles in the company based on ABAC paradigm. But the project was closed because I helped businesses to understand that it doesn't solve any business problems.

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

Database: postgresql, redis, rabbitmq.

Tech: ruby, rails, dry-*, hanami

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 these applications were created with fault-tolerant architecture (from 3 and more nodes).

Database: elasticsearch, 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:

- **novel** (<https://github.com/davydovanton/novel>) - Orchestration SAGA builder.
- **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) - platform for managing and searching starred repos from github.
- **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) .

Education

2010 - 2015, Bauman Moscow State Technical University.