



# Denis Ryzhkov

CRAFTING CODE  
WITH LOVE AND THOUGHT

Contacts



## Principles:

- Value for user
- [Keeping It Simple](#)
- [Don't Repeat Yourself](#)
- [Intrapreneurship](#)
  - Recent read: "[The Lean Startup](#)" by Eric Ries



Nov 2017+  
Backend architect &  
Innovation engineer at [FineTune](#)

- **Responsibilities:**
  - R&D, new products
  - proposing new ideas, requirements, flows, models
  - documenting, implementing most complex parts
  - reviewing PRs a lot, proposing fixes and improvements
  - answering questions, teaching and learning
- **Improved skills - and opensource created:**
  - [python](#): black, django, asyncio, graphql, graphene - [aiographql](#)
  - [serverless](#): aws sam, fargate, chalice - [chalice-lambda-image](#)
  - [aws](#): iam, ssm, s3, rds, vpc, elbv2, apigateway, ecs, route53, sagemaker
  - [bash](#): shellcheck, aws cli - [binfra](#)
  - [deploy](#): docker, kubernetes, kops, terraform
  - [db](#): postgresql+jsonb, metabase, hasura
  - [ai/ml](#): ecree, openai, sagemaker, tensorflow
  - [integration](#): auth0, jira apps, chrome extensions, ims qti, ims lti sso
  - [tdd](#): factory\_boy, pytest
  - [ci/cd](#): semaphoreci, circleci, github actions
  - [dev tools](#): sentry, locust, swagger, quip, jira, slack, zoom, github, kitty+micro - [config](#)



Feb 2014 - Oct 2017  
Backend architect at [Wakie](#)

- **Created main frameworks and libs:**
  - message queue - [mqks](#)
  - direct sockets - [dmks](#)
  - background events
  - controllable daemons
  - websocket api prototype
  - telecom adapter via [ami](#)
  - metrics etl with web ui
  - greenlet profiler - [gbn](#)
  - memory leak inspector - [mem\\_top](#)
  - notification on error - [critbot](#)
  - db adapters, [etc](#)

▪ **Proposed and done over 500 tasks:**

- development of frameworks
- scalability and failover
- performance optimization
- deep investigations
- documenting flows
- helping teammates
- coding daemons
- code review
- devops

▪ **Improved my skills in:**

- python, its stdlib: multiprocessing, socket, etc
- greenlet, gevent, gevent-websocket, gipc, greenletprofiler, gbn
- memcached, twemproxy, pylibmc, pymemcache
- redis, redis-py, gearman, python-gearman, zeromq, zookeeper
- rabbitmq, puka, amqpy, nucleon.amqp, mqks
- mysql, mysql-python, umysql, pymysql, my4geks
- postgres, psycopg2, pg4geks
- mongodb cluster, pymongo
- voip, asterisk, dialplan, pyst2, pystrix, agi, fastagi, ami, ari, smpp
- aws, ec2, s3, route53, rds, awscli, boto, boto3
- linux, ubuntu, bash, sysctl, iptables, nginx, mercurial, git, supervisor
- etc: babel, graphviz, nltk, nodejs, nose, objgraph, requests

▪ **Team says:**

- «Denis is one of the best developers I have ever met. He is open-minded, creative, smart and organized. It is amazing that all this can be combined in one person. Denis is good at solving complex challenges and he would always succeed if you give him enough time. He is a brilliant employee, team member and a friend.»

Hrachik Adjamian, Founder and **CEO** at Wakie

- «Denis is one of the best developers I worked with. Very structural and responsible approach to tasks. Quick delving into mechanics of unfamiliar, already implemented systems. Superb understanding of computer systems and modern ways of software engineering, both in architecture and tools. That's why he can design architecture of complex systems with horizontal scaling and implement it himself, using various tools (programming languages, databases, queues, caches, etc) depending on technical and business requirements. Rescued us in critical situations like downtime at night. Great work in team, always ready to help, teach and learn. Denis, don't leave us. We'll be missing you :)»

Dmitry Parfyonov, **CTO** at Wakie

- «Denis - one of the most polite and attentive people of all with whom I was assigned to work and be friends. To be honest - he is the most polite and attentive. The vastness of his knowledge in the field of programming and python in particular makes any interlocutor feel like a schoolboy. At the same time Denis is always open to the new and at any opportunity absorbs new knowledge / technology. The reliability of the products that Denis writes exceeds the reliability of the Kalashnikov assault rifle about 7 times. I strongly recommend this guy to hire for a company of any level - from a small start-up, to a trans-galactic corporation - I'm sure he will benefit everywhere.»

Alexander Dolgushin, **Senior VoIP Engineer** at Wakie

- «I was searching for 2 hours for why my application was leaking memory, I tried every tool under the sun (scalene, memory-profiler, pyrasite, pympler, guppy3) until your tool finally pointed me towards stupid flask\_sqlalchemy.\_DebugQueryTuple increasing in ref counter. Huge thanks! I thought I was going crazy, now I can run my tasks without fearing they're gonna get OOM killed :)»

Dominik Dario, mem\_top user



1992 - 2014

### Previous experience:

- My LinkedIn profile: [linkedin.com/in/denisryzhkov](https://www.linkedin.com/in/denisryzhkov)
- Long CV, 7 pages: [2021-09-09--long.pdf](#)
- This short CV, 3 pages: [2021-09-09--short.pdf](#)
- Old version: [denisr.com/v1](https://denisr.com/v1)

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