

Denis Ryzhkov

is a **Senior Software Engineer** good at:

- Solving complex challenges.
- Keeping it simple and valuable.
- Investigating tricky cases with attention to detail and feedback.
- Proposing ideas and technologies proactively.
- Documenting in a simple but comprehensive way.
- Building software from scratch and maintaining it.
- Tuning performance and reliability.
- Reviewing the code with hands-on suggestions.
- Answering questions and learning all the time.

Skills

- **Python** - 16 years:
AsyncIO, AsyncMock, BeautifulSoup, Celery, Chalice, CherryPY, Django, FastAPI, GC ([mem top](#)), Gevent ([gbn](#)), Gipc, Graphene ([aiographql](#)), GraphQL, GreenletProfiler, Gunicorn, Multiprocessing, MyPy, PoeThePoet, Poetry, PyQt, PyTest, Requests, Select ([realtime-capture](#)), Socket ([dmks](#)), SQLAlchemy, Traceback ([critbot](#)), Tweepy, Typing, Uvicorn, Websocket.
- **JS/TypeScript** - 5 years:
AWS-SDK, CDK, Node.js, Prisma, TypeGraphQL, vanilla JavaScript ([code](#) of [my PWA](#)).
- **SQL and NoSQL** - 25 years:
DynamoDB, Hasura ([ahasura](#), [bug report](#), [workaround](#), [doc fix](#)), Memcached (pylibmc, pymemcache, twemproxy), Metabase, MongoDB (pymongo), MS SQL, MySQL (my4geks, mysql-python, pymysql, umysql), PostgreSQL ([data-modifying CTEs](#), pg4geks, pl/pgsql, psycopg2, RLS), Redis (gearman, pythongearman, redis-py), SQLite.
- **AWS** - 15 years:
API Gateway, AWS CLI, AWS-SDK (TypeScript), Boto (Python SDK), CDK (TypeScript), Certificate Manager, Chalice ([chalice-lambda-image](#)), CloudFormation, CloudFront, CloudWatch, Cognito, cross-account S3-SQS-Lambda, DynamoDB, EC2, ECS/Fargate, ELB, IAM, Lambda, RDS, Route53, S3, Sagemaker, SNS, SQS, SSM, SSM bastion tunnel, VPC.
- **DevOps**:
Auth0, **Bash** ([echorun](#), [try](#), [binfra](#), [answer](#)), Dex, Docker, GitHub Actions, GitLab CI, Jq, [Harness.io](#), **Helm** ([grafana-operator PR](#), [helm-docs](#)), IPTables, Kotlin TeamCity DSL, **Kubernetes** (cert-manager, envoy-gateway, external-dns, opentelemetry-operator, victoria-metrics-operator/logs/traces), Linux, Locust, Nginx, OpenStack, Sentry, Serverless Framework ([comment](#), [#2](#), [#3](#), [#4](#)), ShellCheck, Sveltos, Terraform, Ubuntu.
- **Etc**:
AI tools like Cursor, Chrome Extensions, CSS, **Dart** ([safe int id](#)), Elasticsearch, **Flutter** (dargon2_flutter, hive, isar, soundpool, sqflite_sqlcipher, [sqlite3 PR](#)), Git, **Golang** (k8s controller-runtime), Grafana, Graphviz, HTML, Jira Apps, Jq/Yq, Mermaid, MoinMoin, NLTK, OpenTelemetry, Prometheus, RabbitMQ (amqpy, carrot, [mqks](#), nucleon.amqp, puka), SMPP, SphinxSearch, Sumo Logic (alerts, dashboards, lookups, monitors, search query language), VictoriaMetrics, VoIP (agi, ami, ari, asterisk, dialplan, fastagi, pyst2, pystrix).
- **English** - 33 years: [8.2/10](#), [B2-C1](#), [advanced](#).

Timeline

- **Jan 2023 - now:** Senior Software Engineer at [Mirantis](#).
 1. Moving IaC and CI/CD of a big customer to a new level.
 2. KOF: [k0rden](#) Observability and FinOps, examples:
[OSS code repo](#), [code PR](#), [docs PR](#), [live docs](#), [CNCF demo](#).

«I had the pleasure of working closely with Denis, and I can confidently attest to his exceptional problem-solving skills. Denis is not just a good developer; he is outstanding in his field. His ability to tackle complex technical challenges is truly remarkable and has greatly contributed to the success of our projects. Denis consistently demonstrates a strong work ethic and an unwavering commitment to delivering high-quality results. His attention to detail is impeccable, ensuring that every aspect of his work is well-thought-out and meticulously executed. He is a valuable asset to any team, as his technical expertise and dedication shine through in every project he takes on.»

[Patryk Wasielewski](#), DevOps Consultant at AWS Professional Services

- **Oct 2021 - Dec 2022:** R&D backend engineer at [CMR Surgical](#).
Apps for robots saving more people with better outcome in less time.

«Denis is an excellent developer, combining a deep level of technical knowledge, with a thorough and methodical approach to everything you ask him to do. When Denis first joined our team, he made some technical suggestions that allowed us to accelerate our deliveries on a challenging project. I am very happy that we listened his recommendations any updated our architecture and frameworks accordingly. I wouldn't hesitate to recommend Denis, or hire him again in the future.»

[Craig Watkinson](#), Senior Software Engineer at CMR Surgical

- **Nov 2017 - Sep 2021:** Backend architect & innovation engineer at [Finetune](#).
Moving education from paper to screen to AI era.

«Denis is a great person to work with, really a problem solver specialist, he is a great mentor and I am glad to have the chance to work with him. He always provides great feedback and helps everyone as much as he can. I called him "The Professor" because of how much I learned from him.»

[Tiago Almeida](#), Team Lead at Finetune

- **Feb 2014 - Oct 2017:** Python Senior Software Engineer and Architect at [Wakie](#).
Connecting you with the right person for any question or emotion.

«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 engineer, team member and a friend.»

[Hrachik Adjajian](#), Founder and CEO at Wakie

- **2001-2014:** [Jukola-Info](#), [Teplosphera](#), [Brand Lane](#), [VicMan](#), [TulaCo](#) ([Burstly/RAS](#), [TestFlight](#), [Lootsie](#), [ICM SEO](#)) - see [LinkedIn - Experience](#).

«Very nice job Denis, I also checked this out and was very pleased with: the amount of thought / work that went into this, the quality of the documentation, the testing procedure that you applied»

[Trystan Kosmyka](#), Founder and CTO at [TestFlight](#)

- **1999-2004:** Specialist ([equivalent](#) of **Master's degree**) at [B. State University](#) / Applied Mathematics and Informatics / Informatics / Computer Software Engineering / Mathematician - System Software Engineer.
- **Open Source:**
[github.com/denis-ryzhkov](#) - 45 public repos, top one has 82 stars.
[github.com/whyolet](#) - my own open-source [products](#).
[github.com/k0rdent/kof](#) - open-source product of [Mirantis](#), I'm one of the maintainers.
[grafana-operator/pull/2192](#) - feature added to [github.com/grafana/grafana-operator](#).
[sqlite3.dart/pull/189](#) - another PR merged into a [popular package](#).
[stackoverflow.com:denis-ryzhkov](#) - 21 answers, top one has 122 votes.
[pypi.org/user/denisr](#) - 19 python packages.

«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 Dabrowski](#), [mem_top](#) user

- **Principles:**
Value for the user, Keep it simple, Don't Repeat Yourself. [Details](#).
[16personalities.com:INTJ-A](#)

Offer

- B2B contract remotely from Poland to any country worldwide.
- 70 EUR per hour, 560 per day, 12K per month, 144K per year.
- Please contact me: denisr@denisr.com or linkedin.com/in/denisryzhkov