

# Denis Trofimov

## Senior Software Developer

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Portfilio and blog <https://denis-trofimov.github.io/>

## EXPERIENCE

**09/2018 — present**

**Learn Python programming courses, Moscow, <https://learn.python.ru>**

Mentor

- Mentored 3 groups of 6 students for 40 hours each wave.
- Supervised 12 diploma projects.

**Nov 2018 – May 2019**

**Tinkoff, Moscow, <https://tinkoff.ru>**

**Senior Software Developer**

- \* Refactored the Tinkoff Text-To-Speech GRPC HTTP/2 API and Flask CMS services on Python
- \* Rewrited Text-To-Speech GRPC HTTP/2 API service on Golang
- \* Deployed and tested that services on Kubernetes Cloud

### *Technology*

- Languages: Python 3.7, Golang 2 Modules, C++, SQL
- DE & editors: PyCharm, GoLand (IDE JetBrains), VS Code
- Packages: gRPC, TensorFlow Serving, Flask, Unicorn, NumPy, SQLAlchemy
- DB: PostgreSQL DB, SQLite, MongoDB
- DevOps: Docker, Kubernetes, Helm, TeamCity, Nexus, Linux Ubuntu, bash

**May 2017 — Sep 2018**

**Vzor Systems, LLC, Moscow, <https://vzorsystems.ru>**

**Lead Software Developer**

- Developed a biometric identification software (GUI client, server, and embedded).
- Spearheaded a team of 2 developers on this project.
- Conducted a technological proof test and prepared a NIST compliant report

### *Technology*

- Python 2.7, 3.5, C++, C, SQL; Git (GitLab); Eclipse IDE, Qt Creator
- OpenCV, Caffee, SciPy; SQLAlchemy; gRPC, MQTT; PostgreSQL; Ubuntu, MS Windows

**Feb 2013 — Jan 2014**

**«Bigur-consulting», LLC, Moscow, <https://bigur.ru>**

*Software Developer Python*

- Web-commerce site backend development for a wine importer, made on in-house Python framework from scratch.

### **Technology**

- Python 3.2, ExtJS 4; Git; vim, UMLet; PostgreSQL DB, SQLite, Apache HTTP Server, WSGI

**Feb 2006 — Dec 2010**

**«Asoft», LLC, Moscow, <http://www.asoft.ru>**

*Software Developer C++*

- Developed and deployed a railroad technological process modeling client-server application.

### **Technology**

- C++, SQL, HTML, XML, JavaScript; VSC CVS; Eclipse IDE, KDevelop, emacs
- Oracle DB, MySQL, in-house RDBMS + Web Server; bash, Fedora Linux

**Nov 2003 — Sep 2005**

**Khrunichev State Research and Production Space Center, Moscow, <http://www.khrunichev.ru/>**  
*Engineer*

- Developed Borland C++ Builder applications for satellite trajectory computations

## **Projects**

**Nov - Dec 2018**

**Personalized Call Order Django site, <https://zvonok.novogodnee-chudo.ru/>.**

- I had developed the Django powered SPA site for “New Year's Miracle”.
- Team consisted of owner, sysadmin, DBA, designer, me, my mentee junior Python developer.
- I used Jinja 2 templates to install front-end, for storage on site I used PostgreSQL DB 10, for delayed tasks as email and SMS sending -- Celery queue and Redis.
- I created a Docker container with UWSGI and Django for deployment on Nginx web server, and tested this container works on 38 core bare metal Linux server.

**Jan 2017 — Apr 2017**

**Python Backend VOIP traffic recording service for De Novo Lab, freelance job.**

- Refactored a multithreaded VOIP traffic recording service from Python 2.7 to 3.4
- Added Google Cloud Storage, configuration features, fixed JSON API, FTP, SFTP storage features bugs.
- The team from De Novo Lab was PM, sysadmin, 2 testers.

### **Technology**

- Python 2.7, 3.4, SQL; Git Bitbucket, Atlassian Jira; Eric Python IDE, vim;

- Flask, gcs-client, psycopg2 for PostgreSQL DB, SQLite, SQLAlchemy, tcpdump, tshark, mawk;
- Deployed on Debian, CentOS Linux

## Education

**Moscow State University after M. V. Lomonosov, 2002, <https://www.msu.ru/>  
Postgraduate in Applied Mechanics**

- Presented talk on my thesis at annual conference Lomonosov`s Readings
- Wrote thesis On Altering Trajectory of Dangerous Asteroids and Comets
- Performed calculations in MATLAB, Maple.
- Taught lab work on hyscopes

**Moscow State University after M. V. Lomonosov, 2000, <https://www.msu.ru/>  
Specialist(BCs plus) in Applied Mechanics**

## Accomplishments

**Practical Deep Learning For Coders, 2018**

Data Institute at USF in San Francisco by Jeremy Howard (Kaggle's #1 competitor 2 years running, and founder of Enlitic), [course18.fast.ai](https://course18.fast.ai).

**Innovative Production Managment. Sales and marketing, 40 hours, 2013**

«Academy of Managment and Marketing», Moscow

**SME managment. Negotiating skills. 100 hours, 2013**

«IT Institute», Moscow <http://www.ikt.ru/>

**Business English for President Program Attendants, 100 hours, 2013**

Russian State Social University (RSSU), Moscow <https://en.rgsu.net/>

**Professional technical analysis stock traiding, 2008**

FINAM Education Center, <https://www.finam.ru/>