Denis Trofimov

Senior Software Developer

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Portfolio 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.

11/2018 – 05/2019
Tinkoff, Moscow, https://tinkoff.ru
Senior Software Developer

- Refactored Text-To-Speech API service, using in-house server gRPC async(curio) Python
- Designed and implemented CMS of a voice assistant using Flask, PostgreSQL
- Redesigned and implemented low-latency Text-To-Speech API service on Golang, Redis, PostgreSQL
- Deployed and tested that services in Kubernetes Cloud, used TeamCity CI/CD
- Responsibilities include: code review, interviews, mentoring developers from my team
- The team consisted of a technical lead, PM, 2 backend developers, 4 AI data scientists, and a mathematical linguist

Technology
- Languages: Python 3.7, Golang 2 Modules, C++, SQL
- IDE: PyCharm, GoLand, VS Code
- Packages: gRPC, TensorFlow Serving, Flask, Gunicorn, NumPy, SQLAlchemy.
- DB: PostgreSQL DB, SQLite, MongoDB
- DevOps: Docker, Kubernetes, Helm, TeamCity, Nexus, Linux Ubuntu, bash

05/2017 — 09/2018
Vzor Systems, LLC, Moscow, https://vzorsystems.ru
Lead Software Developer

- Designed architecture and developed a bio-metric identification software (GUI client, server, and embedded).
- Hired and spearheaded two software developers on this project.

- Optimized identity recognition using classic image processing algorithms and CNN
- Perfomed 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, Caffe, SciPy; SQLAlchemy; gRPC, MQTT; PostgreSQL; Ubuntu, MS Windows

03/2017 — 08/2017
Upwork Inc., USA, https://www.upwork.com
Software Developer (Remote)

- 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 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

06/2016 — 02/2017
«Bigur-consulting», LLC, Moscow, https://bigur.ru
Backend Software Developer

- Web-commerce site back-end 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

03/2011 — 05/2016
«Asoft», LLC, Moscow, http://www.asoft.ru
Software Developer

- 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

01/2009 — 02/2011

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

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

Projects

Nov 2018 - Dec 2018
New Year's Miracle
Software Developer Python

- I had developed Personalized Call Order Django SPA site **https://zvonok.novogodnee-chudo.ru/.**
- 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.

Education

Moscow State University after M. V. Lomonosov,
Postgraduate in Applied Mechanics, Moscow, Russia

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

Moscow State University after M. V. Lomonosov,
Bachelor of Science in Applied Mechanics, Moscow, Russia

Accomplishments

Practical Deep Learning For Coders
Data Institute at USF in San Francisco by Jeremy Howard (Kaggle's #1 competitor 2 years running, and founder of Enlitic), course18.fast.ai.

Innovative Production Managment. Sales and marketing, 40 hours
«Academy of Management and Marketing», Moscow

SME managment. Negotiating skills. 100 hours
«IT Institute», Moscow http://www.ikt.ru/

Business English for President Program Attendants, 100 hours

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

Professional technical analysis stock traiding
FINAM Education Center, https://www.finam.ru/