

Ilya Vihtinsky, Software Engineer.

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Upwork (was deleted by upwork): [Upwork profile\(archive\)](#)

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Summary:

Software engineer with more than 15 years experience, but continue learning. Last 12 years work on python based projects. Good at developing and debugging complex, heterogeneous systems; systems that use different programming languages, stacks, distributed on multiple servers. Like to make "impossible" things happen. My motto is "Age quod agis!" (do the business).

Employment History:

1. Senior Python Developer at Zyfra.com 07/2022 - now

Work as python developer on project to automate mining production. A lot of telemetry from heavy mining dump trucks. Large legacy code base. System working with different databases Postgres, Oracle, MS Sql. Also one interesting side project with Kafka, Debezium and a dozen of docker containers.

Achievements and duties:

- Support large legacy code base
- Debugging complex system
- Mentoring less experienced colleagues and interns
- Estimated time needed to implement features.

2. Senior Python Developer at Dignio.com 07/2017 - 07/2022

Work as python developer at the Norwegian start-up in medicine. Do a little of DevOps tasks. Develop backend of large web app. Technologies used - flask, celery

with redis, postgres for database, nodejs. A lot of legacy custom code. Use docker for deploy and develop.

Achievements and duties:

- Support complicated legacy code like this - <https://github.com/dignio/py-mongosql>
- Set up CI with Jenkins, from running test to publish docker image.
- Wrote Selenium tests for the web app.
- Estimated time needed to implement features.
- Worked with infrastructure code in terraform.
- Helped new developers in on-boarding.

3. Senior Software Engineer at ProvidensAI 03/2017 - 01/2018

Work as python developer at the start-up. This company used machine learning to predict real estate prices. But I work with the backend, not the ML part.

Achievements:

- Improved backend performance.
- Added fulltext search to existing site.
- Write some web scrapers.

4. Experienced Python Developer at Upwork(formerly oDesk). 02/2011 – 03/2017

Member of oDesk Professional Services team. The Upwork team that builds custom projects for big clients. Usually it's some integration with Upwork platform. I am fullstack web developer, work with both frontend and backend(python). Have experience with Django, Flask, Celery, Google App Engine, Mongo, etc. on backend. Use jQuery, backbone.js, RequireJS on frontend. Our team use CI (jenkins) with unit and selenium tests.

Notable Projects:

- oWidget – widget with contractors and jobs from oDesk for third party sites. <http://widget3.odeskps.com/> (this is an old demo site, not sure project is still alive). Built with backbone.js frontend, python/flask based backend.
- Some sites for inner use, integrated with oDesk API.
- Django based site for content moderation with celery task queue and mongodb storage.
- Web application on Google App Engine with DSL based access rules.
- Cool script that gets frames from video on the web, but do not download the full video file. I especially like this one.

5. Team Lead Hotger.com 05/2009-02/2011

Supervised a team of developers. Broke projects into tasks, estimated the time needed, controlled of task implementation. Worked on the hardest parts. Also my duty was administration of cluster of FreeBSD/CentOS servers (about 10 servers).

Notable Projects:

- sermon.net – one of the biggest media portal of sermons. Php/mysql based site with a lot of media content and live streaming, convertation of uploaded videos (ffmpeg). Support for iOS, Android devices.

I was team lead on the project. Also my duty was:

- Design mysql tables, write db triggers
- Work with flash code
- Administration of Wowza, Apache, lighttpd, etc. servers

- 2conv.com – online video converter. Utilize many servers, about 100 Gb summary RAM, high traffic, high load. Frontend uses php, python scripts on backend. I was team lead on this project. Also I administrated Freebsd servers used, than we migrated to Centos servers. I modified youtube-dl downloader to work in multiple threads and download multiple parts simultaneously.

6. Web software engineer Webrost 10/2007 – 05/2009

Worked as php developer, linux admin.

Notable Projects:

- rostovtsum.ru Worked on previous version of interactive shop map. Flash frontend with php/mysql backend
- Administration of huge amount of php/mysql sites. Automated migration from one server to another.

7. Engineer at Rostov State University 01/2004 – 10/2007

Engaged in research on signal processing. Developed FPGA firmware using (VHDL). Wrote C++ programs to control FPGAs. Tested and developed electronic devices.

Skills:

1. Python

Work experience since 2008 year, python usage in handling clustered jobs (multipart youtube downloader and video converter on 2conv.com), participated in Django based bidsite project, Django-cms experience. Worked as python developer for Upwork in oDesk Professional Services team. Developed websocket server using tornado. Currently working on single page web application backend on flask, celery.

2. JavaScript

Besides basic usage (ajax, selectors, effects, etc) have been completed more complicated tasks such plugins coding, templates usage, cross-domain ajax and flash interaction. Experience with Backbone.js MVC framework.

3. SQL

Solid theoretical and practical knowledges in relational db engineering, have experience of work with very large Mysql DB on infopages.com

4. Linux administration

Strong administration skills: nix(freebsd, centos) servers configuration and monitoring, linux user since 2002 year

5. PHP

Worked with high load php sites 2conv.com and large php codebases sermon.net

6. C/C++

Used C++ on my first work. Used C++ with wt-toolkit (<http://www.webtoolkit.eu/wt>) in my hobby project.

7. Java.

Write some Wowza and Red5 modules.

8. Docker.

Package python applications as docker containers. Used docker images for running selenium tests.

. English

Good reading & writing skills. Average verbal skill.

Education: - 2005 Diploma in Physics (Rostov State University)