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Professional experience with Python and other programming tools

I work with the software instruments inluding Python (2 and 3), web frameworks (Bottle, Flask), databases and their ORMs (PeeWee) etc. and I am familiar with web technologies and general algorithms, studying and performing programming for many years both in academic and commercial applications.

Python experience (incl. web platforms)

a. Python

I studied many tools, but commercially used only Flask and Bottle, e.g. Bottle is used on www.bard-afisha.spb.ru (in Russian, regional concerts announcements).

This summer I guided a team of students on Novosibirsk Summer School for Young Programmers (http://school.iis.nsk.su), in Russian), our workshop was to build a system to support work of small and medium size teams and we used Python3, Javascript, HTML5, Sqlite, CSS libraries, etc, work is successful and is available on GitHub.

I use iPython notebooks, mainly within Anaconda metapackage.

b. non-Python

I used:
PHP (and I dislike it),
Parser (www.parser.ru from www.artlebedev.ru or www.artlebedev.com/) (many sites since 2001),
earlier -- Perl.

Experience about databases

a. RDBMS

Most often I use:
Sqlite:
for prototyping and lightweight applications,
MySQL:
for real sites, if PostgreSQL is not available,
PostgreSQL:
if available and usable
(e.g. at hosting www.spaceweb.ru it was not good to use it,
because the DBMS was placed on a server on another computer rather than sites code and data themselves,
so a) additional time was required to make requests,
b) it would double downtime of the entire site).

a1. Earlier I used also MS SQL (with MS Access, separately and as frontend),
a2. ...at home sometimes I use spreadsheets like LibreOffice Calc
a3. ...and often -- Google Office, esp. for distributed common works,
a4. ...with processing them from Python.

b. NoSQLs

Redis,
also as RedisQueue,
also from Python.

c. Message Queues

ZMQ
RabbitMQ
RedisQueue

d. HTML5

Tested all storages and DBs, locally.

e. ORMs

I tested several Python ORMS, but used only PeeWee (incl. PeeWee Sqlite plugin).

f. Full-text search etc

Experiments with ElasticSearch, @home.

g. Others

Local projects with distributed storages for 80+TB of text & multimedia (bards songs archives).

General review of tools and skills

Now I work almost entirely in Linux (Mint, Cinnamon)
(with MS Windows7 in VirtualBox (quite seldom)).

I have often updated sites with my info;

- https://trello.com/b/aVHZmqia/ (ru, en) – tools I use/ do not use,

- https://ru.linkedin.com/in/ (ru, en) – my LinkedIn page,

- http://www.myke.spb.ru (ru, en, eo) – my main site.

Publications: http://www.myke.spb.ru/files/papers/mk-pube.lst
Diplomas & certificates are also available.

I also study (almost) all that happens in Python, DevOps, etc worlds,
by IRC, Telegram, youtube, Google+, conferences' proceedings;
PSF member; member of St.Petersburg Python, Linux, DevOps etc groups.