

Alexander Sidorov

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About myself

I'm specializing on software development using Python. I have a good knowledge and experience in software design and architecture, SQL databases and data storages, data warehousing, cryptography, information security, financial management, code base support, algorithms and data structures, networks and protocols. I am focused on providing optimal solutions which meet customers' requests without increasing technical debt and support costs.

Recommendations may be provided upon request.

Employment & Project history

8/2019 ~ now: in TeachMeSkills

Teacher of "Web development using Python" course

Responsibilities:

- Mentoring and supervision

Framework:

- PyCharm, vim
- Python 3.7
- Heroku, AWS
- Git
- Django, Flask, Telegram
- Slack

10/2013 ~ now: in Upsilon IT

Backend engineer on different projects

Responsibilities:

- Architectural design of back-end platform;
- Database schema design;
- Data analytics solutions based on OLAP approach;
- Design and development of authentication & authorization subsystems to help customers manage access and share data either to other users or via email/direct links. Security has been tested and approved by third-party audit;
- Development of OAuth2 provider, used for sign-up in side projects and for internal resources;
- Design and development of subscriptions and payments subsystem;
- Design and development of data importer to handle customers' large data collections;
- Consulting and performing code profiling and logic and queries optimizations;
- Small project management experience, gained when implementing subscription plans & payments tracking subsystem;
- Conducting of technical interviews, mentoring;
- Implementing adapters for intercommunication with third-party & customers' APIs;
- Support of legacy version of back-end written using Django;
- Python 2to3 upgrade on several projects;

Frameworks and tools using:

- Python (2.6~3.8);
- PostgreSQL (9.6~12.0); SQLAlchemy;
- AWS
- GCP
- RabbitMQ, Celery;
- PyCharm; DataGrip; Vim

6/2013 ~ 10/2013: in IASO

Software engineer of IASO Backup product

Responsibilities:

- Development of cloud management tools of backup platform;
- Integration with side financial management systems using SOAP;

Frameworks and tools using:

- MS Visual Studio;
- GCC
- CMake
- Qt, Boost
- soapUI

2/2011 ~ 5/2013: in EPAM

Software engineer on Infoblox project

Responsibilities:

- Development of IF-MAP server - a network metadata collection solution;
- Development a number of features for Infoblox DNS and DHCP solutions;
- Development of Nginx module using in Infoblox solutions;
- Development of AMQP management system and integration in for customers product;
- Development of reporting system based on ElasticSearch and integration in customers product;

Frameworks and tools using:

- Python/C API
- ISC BIND; ISC DHCP
- Nginx
- AMQP
- ElasticSearch
- Apache
- soapUI

2/2010 ~ 2/2011: in Softeq Development

Software developer on SanDisk projects

Responsibilities:

- Development of test automation framework for testing of SD/USB firmware;
- Firmware failure analysis;

Frameworks and tools using:

- Python, Boost::Python
- MS Visual Studio
- Eclipse

Skill Matrix

Skill	Level	Experience	LTU	In production	Notes
<i>Operating Systems</i>					
Linux	Advanced	10	2020	yes	Gentoo, Ubuntu, CentOS
Mac OS X	Intermediate	4	2020	no	using for dev
Windows	Intermediate	8	2015	no	
<i>Tools</i>					
git	Intermediate	5	2020	yes	
coreutils	Intermediate	10	2020	yes	
make (CMake)	Intermediate	3	2019	yes	
<i>Databases</i>					
PostgreSQL	Advanced	7	2020	yes	Primary
MongoDB	Beginner	1	2017	yes	Migrate off it
Firebase	Beginner	1	2019	yes	Mobile project
ElasticSearch	Beginner	1	2018	yes	FTS
Redshift	Intermediate	1	2019	yes	OLAP
Cassandra	Beginner	1	2018	yes	for audit
MySQL	Beginner	2	2018	yes	customer req
Druid	Beginner	1	2017	no	investigation
<i>Programming Languages</i>					
Python	Experienced	9	2020	yes	C/C++ bindings
C++	Intermediate	1	2014	yes	
C	Intermediate	3	2014	yes	
Java	Beginner	1	2009	yes	
Delphi	Basic	2	2008	no	

<i>Technologies</i>					
ETL	Intermediate	3	2020	yes	custom solutions
Data Warehousing	Intermediate	2	2019	yes	two projects
Data architecture	Intermediate	3	2019	yes	several projects
Cryptography	Intermediate	1	2017	yes	bcrypt, AES
User Management	Intermediate	4	2020	yes	ACL, auth
OAuth2	Intermediate	2	2019	yes	Provider side
SSO	Beginner	1	2019	yes	Provider side
API	Intermediate	5	2020	yes	Open-source REST framework
<i>Services</i>					
AWS EC2	Intermediate	5	2019	yes	
AWS RDS	Intermediate	5	2020	yes	PostgreSQL
AWS Lambda	Intermediate	2	2020	yes	+ serverless
AWS CloudWatch	Beginner	4	2020	yes	
AWS API Gateway	Beginner	3	2020	yes	
AWS Cognito	Beginner	1	2019	yes	
Heroku	Intermediate	3	2020	yes	Procfile, Dockerfile
GitHub	Intermediate	6	2020	yes	
GitLab	Intermediate	3	2020	yes	+ CI
Travis CI	Intermediate	4	2020	yes	
PyPI	Intermediate	4	2019	yes	open-sourcing pkgs within projects, own projects
<i>IDEs</i>					
PyCharm	Intermediate	5	2020	yes	
DataGrip	Intermediate	3	2020	yes	
vim	Intermediate	8	2020	yes	:q!
<i>Source control</i>					
Git	Intermediate	8	2020	yes	git rebase -i
Mercurial	Intermediate	1	2015	no	
SVN	Intermediate	2	2014	yes	

<i>Testing & QA</i>					
unittest (pytest)	Intermediate	10	2020	yes	TDD
regression testing	Intermediate	10	2020	yes	
selenium	Beginner	2	2016	yes	
<i>Education</i>					
Belorussian Academy of Communications	Bachelor	4	2007		
Belorussian State University of Radioelectronics and Informatics	Master	4	2011		
<i>Foreign Languages</i>					
English	Upper Intermediate	20	2020	yes	
German	Beginner	1	2006	no	
Finnish	Beginner	1	2020	no	