

Ophir LOJKINE

SOFTWARE ENGINEER



About



Paris FR



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github.com/lovasoa



lovasoa



Ophir LOJKINE

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Front-end web
development

Master

HTML CSS Typescript

Javascript WASM

Angular Vue.js Svelte

Scientific programming

Intermediate

python pandas

tensorflow scipy

scikit-learn

Back-end software
development

Master

Python Rust Java Scala

Node PHP

Languages

French (Native tongue)

English (Good command, both
written and spoken (TOEIC 930))

Russian (Conversational (I lived in
Moscow for 2 years; my partner is

Summary

I'm an enthusiastic French software engineer. My main interests include data science, software architecture, and optimization. I've studied software engineering in general, and data analysis in particular in France and Russia.

Experience

Enexflow

12/2018 - Present

CTO

Enexflow is a consultancy company positioned at the intersection between technology, economics, and regulation facilitating the development of Clean Energy Resources, and their integration to power markets.

AutoGrid

12/2018 - Present

Senior Software Engineer

We built an energy data management platform for Total that allows energy market actors to cooperate efficiently, visualize their data and extract valuable insights, and manage their devices in the field.

- Wrote Python services that now handle sensitive and complex time-series in realtime in production every day.
- I had the occasion to work both on a large kubernetes cluster and embedded real-time devices with limited resources.
- Built insightful data visualizations with Grafana.
- Modeled a large multivariate optimization problem in Tensorflow

Qwant

09/2017 - 12/2018

Data Engineer

Qwant is a search engine that does not track its users. It has the largest web index in Europe, the quality of which I contributed to. I was a member of the core 'data' team, working on the company's web crawlers, databases (indices), and data analysis tools.

- created a machine-learning model for the classification of user searches (using distributed word-embedding and clustering in Spark)
- Contributed to the crawlers, fixed many data-quality issues.
- Built data visualization tools.

ERDF

04/2015 - 08/2015

Data science intern

ERDF (now Enedis) is the largest french electric network compagny. I interned as a data scientist, and built a workload prediction tool.

- used python with ipython, numpy, scipy and scikit-learn
- worked with an SQL database of over 10 million datapoints describing the evolution of electric consumption over ~5 years at several points in the distribution network.
- Built a web application to access the previsions.

Education

Bauman Moscow State University

09/2015 - 07/2017

Master's degree in Computer Science and Control Systems

- Master's thesis: implement, compare, and model several distributed join algorithms on Spark
- Relational algebra
- Post-relational databases
- Queuing theory
- UML modeling
- Project management
- Human factors

Interests

Ethical Hacking

I found several security vulnerabilities in Firefox, Chrome, Safari, and a Mozilla website, and got awarded bug bounties from Mozilla and Google.

I love playing root-me.org challenges, and am an avid information security news reader.

Theater

Played in Centrale Nantes' theater company

Rowing

Practiced at Centrale Nantes

Climbing

Practiced in Moscow

Free software

using
contributing code
reporting bugs

- General engineering
- Object-oriented programming
- Databases

- Compilers
- Functional programming

Volunteer

Sanipasse · <https://sanipasse.fr>

05/2021 - Present

Free software developer

Sanipasse.fr is the largest and most successful opensource EU Digital COVID Certificate verification software in France

- ~4M monthly requests served
- 100s of physical terminals, crated by multiple companies, use sanipasse throughout France

WBO Online Whiteboard · <https://wbo.ophir.dev/>

08/2013 - Present

Free software developer

WBO is a fun side-project I'm working on in my free time. It's a free and opensource collaborative online whiteboard.

- ~4000 daily connections on the official instance, constantly growing
- Collaborating with onther contributors on Github

Dezoomify Image Downloader · <https://dezoomify.ophir.dev/> 12/2013 - Present

Free software developer

I develop a suite of opensource tools to download zoomable images from museum websites. Also a very fun side-project, that taught me a lot.

- hundreds of websites supported
- started as a personnal tool, now has thousands of daily users

Publications

Optimal parameters for bloom-filtered joins in Spark

06/2017

an algorithm that joins relational database tables efficiently in a distributed environment using Bloom filters of an optimal size