Taras Shevchenko

Executive summary

1. Strong in-depth skills in STL, C++, Python, general-purpose algorithms and generic programming.
2. Performance-oriented software design.
3. Strong understanding of algorithms, networking, systems architecture and end-user experience.
4. Systems programming.
5. In-breadth and in-depth understanding of Open Source software facilities.

The last industrial experience

Rails Reactor (2016 - present)

Key results:

- Designed and implemented a flight planning system.
- Created a Machine Learning model for Ideal Customer Profile evaluation.
- Implemented an API for management of available Kubernetes services and external integrations.
- Designed and implemented a few e-commerce services and APIs.
- Worked on visual odometry for self-driving cars.
- Designed a product for ads management and delivery.

Daily activities:

1. Design and implementation of Machine Learning pipelines.
2. Negotiations with clients.
3. Systems design.
4. Programming.
5. Performance measurements.
6. Testing.
7. Code reviews.

Open source contribution

Product	Purpose	Contribution
facebook/FastText	Word embeddings and supervised models	2x performance improvement for training and inference
sgl	Reusable software components	10 Containers and 240 Generic algorithms
searstar	A core library for ScyllaDB	Redisgned HTTP router
stan.cpp	Cross-platform client for NATS Streaming	Own development

Education

Institution	Degree	Specialization	Thesis
Institute for Applied System Analysis at NTUU Kyiv Polytechnic Institute	Master's	System Analysis and Control Theory	Multimodal Text Search System
	Bachelor's	Artificial Intelligence	Distributed Search Relevance Evaluation

Other information

- Solid mathematical culture.
- ACM ICPC semifinalist.

Skills

Programming languages	C++(98,11,14,17,20), Python, Java, Scala, Ruby, JS
C++ stack	Boost libraries, Adobe Source Libraries, Seastar, Jinja, CMake, Clang, GCC, Protobuf, FlatBuffers
Python stack	CPython, Cython, Pybind, SQLAlchemy, Flask, Django, Sanic, Django Rest Framework, Sphinx, Google OR-Tools, Celery, Redis-Py, Credstash, Django OAuth Toolkit, VirtualENV, SciPy, NumPy, Matplotlib
Operating systems	GNU Linux and FreeBSD
Technologies	Bash, Docker, Kubernetes, Vagrant, Nginx, Haproxy
Databases, etc	Databases: Postgres, MySQL, ScyllaDB, SQLite, Memcached, Redis
Other	Payment Systems, CI/CD process

Contacts

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