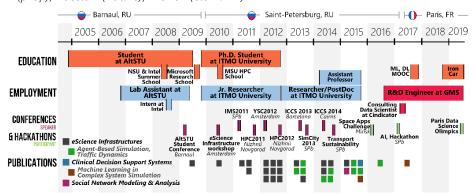
Konstantin KNYAZKOV

Paris, France

SUMMARY: Sr. R&D Engineer / Data Scientist with 9 years of professional experience: 6 years in academia (research and R&D), 2+ years of FinTech R&D. Holding a PhD degree in Computational Science (2012), I haven't lost a strong passion for research and new ideas generation. My professional interests lie in the domain of Data Science, AI, and ML. I am pretty excited about a theme of hybrid intelligence and Publications application of AI and evolutionary computing to engineering and design tasks. •

AGE: 32 years old; **EDUCATION**: MSc, PhD in Computational Science; Languages: English (prof.), Russian (native), French (elem. A2)

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EMPLOYMENT

GLOBAL MARKET SOLUTIONS, R&D

Senior Software Engineer

July 2017 - Present, 2Y http://www.globms.com

Paris, France

- 1. Raid Delivered (from the prototype to a product) a full-stack cloud-based solution for computation of xVA risk metrics for bank portfolios of derivative instruments. Played a key role within almost all infrastructural parts, e.g. a hybrid storage solution for financial market data, features: immutable data, collections versioning; workflow management;
- 2. Is Identification and calibration of a workflow performance model, modeling of simulation time which is needed for cloud computing infrastructure size estimation; developed a testbed for calibration of market data diffusion models;

GLOBAL MARKET SOLUTIONS. R&D Paris, France / St. Petersburg, Russia

Senior Software Engineer, remote job

Nov 2016 - July 2017, 6M http://www.alobms.com

5. Ran Design and development of an analytical web-application for risk management (prototypes, backend, frontend);

CINDICATOR, Saint-Petersburg, Russia

temporary consulting Data Scientist

Mar 2017 - April 2017, 2M

6. Built a machine learning pipeline; implemented the Bayesian learning model, built a gradient boosting model;

ITMO UNIVERSITY, ESCIENCE **RESEARCH INSTITUTE, St. Petersburg**

Researcher, **Assistant Professor** **Sep 2009 – Sep 2015**, 6Y http://en.escience.ifmo.ru

- Design and development of a distributed computing platform for computationally intensive tasks. Proposed the technology of interactive workflows before stream processing systems became widely used.
- 8. R Research studies in computational science, agent-based simulation, traffic simulation and human mobility modeling, evolutionary computation. Published more than 30 articles. Presented research findings at 6 international conferences/workshops. Supervised research of master students. Peer reviewer in several journals and conf. proceedings;
- 9. Issume 19. In the Established a collaboration with researchers from the Federal Almazov North-West Medical Research Centre on the early stage of clinical decision support system project; implemented the data acquisition infrastructure for electronic health records processing. Data analysis of an emergency transportation system of Saint-Petersburg based on the traffic data. Validation of ensemble-based water level forecasting model;
- 10. Developed and taught lectures on: software systems' architectures; traffic simulation; scientific visualization; distributed eScience applications development; agent-based modeling and simulation;

FREELANCE, Barnaul, Russia INTEL CORPORATION, Novosibirsk, Russia

Software Developer Intern / Software Engineer

2008, 2009 Jul 2008 - Aug 2008, 2M

ALTSTU, Barnaul, Russia

Computer Labs Assistant

Sep 2006 - Jun 2009, 3Y

EDUCATION

MSC, PHD ~BAC+8

ITMO UNIVERSITY. St. Petersbura

PhD in Computational Science

Sep 2009 - Sep 2012, 3Y

Thesis: "Composite applications development technology with the use of domain-specific program modules".

ALTAI STATE TECHNICAL UNIVERSITY (ALTSTU), Barnaul

MSc in Software Engineering

Sep 2004 - Jun 2009, 5Y

Diploma with honors; Thesis: "Technology and Framework for Distributed Systems Development based on the Active Object Concept". **Summer 2010**, 2W

MOSCOW STATE UNIVERSITY (MSU), Moscow MICROSOFT RESEARCH and MSU, Moscow **INTEL CORPORATION and NSU, Novosibirsk**

Summer School on High Performance Computing Summer School on HPC **Summer School on HPC**

Summer 2009, 2W **Summer 2008**, 2M

PROJECTS AND HACKATHONS

IronCar Competition, Paris NASA Space Apps Challenge, Minsk Building a self-driving car. Role: head of team

Autumn 2018 - Present

Project received a Global Nomination. Role: analysis of satellite images.

April 2016

SKILLS

.Net Core, C#, Python, Java, JavaScript, SQL, TypeScript, MongoDB, Protobuf, Apache Ignite, Apache Spark, Consul, Ansible, React, Redux, Docker, Flask, Powershell; *Passive (>3yrs not used*): C/C++, Erlang, Ruby, ZMQ, Django, MPI, OpenMP, TSQL;

IPython, Pandas, scikit-learn, keras, tensorflow, DVC, gnuplot, d3js, plotly.js; *Passive*: R, shiny. •