

Alexey Siretskiy

education

2006–2015 **Doctor** of Philosophy degree — Physical Faculty, Saint-Petersburg University, Russia
2006–2011 **Doctor** of Philosophy degree — Science and Technology, Uppsala University, Sweden
2004–2006 **Master** of Physics degree — Physical Faculty, Saint-Petersburg University, Russia
1999–2004 **Bachelor** of Physics degree — Physical Faculty, Saint-Petersburg University, Russia

certifications

1. 2020 AWS SageMaker, AI and Machine Learning - With Python, Udemy
2. Ultimate AWS Certified Solutions Architect Associate 2019, Udemy
3. Machine Learning, Coursera
4. AWS Certified Solutions Architect - Associate, 2019, AWS

academic and industrial experience

2019-present **Department of Social and Economic Geography at Uppsala University**
Uppsala, Sweden, *consultant, software developer*
Architecting and deploying on premise Spark/Hadoop cluster. Developing ETL pipelines, Machine Learning, Data Science.

2019-2020 **AiFive AB**
Stockholm, Sweden, *Senior Machine-Learning Engineer*
Full stack in Machine Learning and Artificial Intelligence. Collecting data (ETL), creating ML-model, packing the code in the git-versioned package, presenting results. Neural networks, Pandas, Keras;
Example project: energy consumption prediction for E.ON Sweden;

2017-2019 **Combient AB**
Stockholm, Sweden, *Data Engineer*
Data and Infrastructure engineering. Development and maintaining local IT-infrastructure. Elements of Web-Programming, network architecting and system administration. DNS, DHCP, VLAN, VPN, Hadoop, Spark, Private Cloud, Cisco, Fortigate.
Example activities: support for Data Scientists, writing Web-apps for customers

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2015-2016 **ICM Department at Uppsala University**
Uppsala, Sweden, *Carl Trygger fellow, software developer*
Support and development of Web-based service for G-protein coupled receptors modelling, http://gpcr-modsim.org. Python, PostgreSQL, Django, Puppet
Example activity: deriving and implementation enhanced modelling technique algorithms, poster presentation in the eSSENCE Academy (Arlanda, Sweden)

2012–2014 **IT Department at Uppsala University**
Uppsala, Sweden, *Postdoc in Cloud Computing*
Deploying and administering Hadoop cluster in virtual environment. Research of Hadoop setup for Next Generation Sequencing data analysis. OpenNebula, Puppet, Linux, Cloud.
Example activity: participation in the international COST events: Hadoop and NGS data processing Hackathon III (Pula, Italy, 2013) and IV (Sofia, Bulgaria, 2014), the 10th IEEE International Conference on e-Science (Guaruja, Brazil)

2011–2012 **Swedish Agricultural University, Plant and Forest Genetics**
Uppsala, Sweden, *Bioinformatician*
Establishing linux-based pipelines for Next Generation Sequencing (NGS) data analysis. Researching and deploying pipelines. Linux, Python, VM.

2006-2011 **Uppsala University, Physical Chemistry**
Uppsala, Sweden, *PhD Student*
Programming for high performance clusters. New methods derivation for investigation of of the phenomena of DNA condensation. Parallel calculations, HPC, Python, Physics of condenses matter.
Example activity: participation in the National Graduate School in Scientific Computing, Programming in Science and Technology, Parallel computers and programming.

contact

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LinkedIn profile

languages

Russian: mother tongue
English: fluent
Swedish: basic

programming

Fortran, Python, Bash, Django, Flask, HTML, Pandas, Keras

keywords

statistical physics, numerical modelling, programming, Monte Carlo methods, high-performance computing, distributed calculations, bioinformatics, Linux, Hadoop, LaTeX, TikZ, cloud computing, git, Web-programming, networks, Fortigate, Cisco, LDAP, OpenNebula, VLAN, Machine Learning