

# Mikhail Solodovnikov

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## EDUCATION

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- **Perm State University** Perm, Russia  
*Not Finished. Sep. 2013 – Jun. 2015*  
Master of Science, Finance and Information Technology.  
Research bubbles on financial markets using LPPL-models  
and systemic risks in Europe Banking System. CFA Institute Research Challenge 2014 participant.
- **Perm State University** Perm, Russia  
*Graduated at Jul. 2012*  
Specialized in Computational Fluid Dynamics.  
Research convection of liquid ternary mixtures in connected channels.

## EXPERIENCE

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- **Nebulytics** Moscow, Russia  
*Full Stack Software Developer May 2015 – Sep. 2016*
  - **Platform Development:** Participate in development core features for proprietary SaaS platform. Architecture and develop solution for server (using Java/Groovy/Grails/Python stack of technologies as a base for server side components), client (javascript/jquery/Bootstrap) and database (mariaDB/MySQL/Percona and proprietary MySQL framework written on C++ macros in version one and Lisp in version two) side of the platform.
  - **Consulting:** Develop solutions for company customers, using Nebulytics platform.
  - **DevOps:** Tuning nginx load balancer. Config the Elasticsearch/Logstash/Kibana stack for server performance monitoring. Write scripts for serving existing code (bash, Perl).
- **JSC Prognoz, Center solutions for financial markets** Perm, Russia  
*Software Engineer Aug. 2014 – May 2015*
  - **R&D:** Research fraud activity on the Moscow Stock Exchange. Develop models which allow regulator (Bank of Russia) investigate money laundering, insider trading, etc.
  - **Software Development:** Integrate a created models into existing stock exchange monitoring application (Delphi/PL/SQL/Oracle Database). Develop the tool for connecting to Moscow Stock Exchange and receiving transactions data using FIX/FAST protocol (C++).
- **JSC Prognoz, Direction of international development** Perm, Russia  
*QA Engineer May 2013 – Aug. 2014*
  - **Quality Assurance:** Testing mobile, web and desktop applications, application backends and REST/SOAP services. Coordination of development teams.
- **Scientific Industrial Instrument Making Company, R&D Department** Perm, Russia  
*Research Engineer Oct. 2011 – May 2013*
  - **Measurements automatisation:** Create test stands for fiber laser, fiber angular velocity sensors and integrated optical modulators, which allow automatically measure optical characteristics using a stack of devices such as optical spectrum analyzers, power meters, optical switches, thermal boxes. Write software to manipulating it using PC and report generation (LabView, C#).
  - **R&D:** Participate in application research of fiber lasers for sources of light for fiber optic gyroscope, markers for a metal, and fiber optic amplifiers for telecom purposes. Research its behavior in a wide range of temperature conditions and under vibrations.  
Application research a behavior of sensors under conditions of temperature changes. Theoretical study of noises in sensors with spectral methods.
- **Perm State University** Perm, Russia  
*Assistant of Physics Department Oct. 2011 – Feb. 2012*
  - **Assistance:** Demonstration of physics experiments.

## PROGRAMMING SKILLS

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- **Languages:** Python, Groovy, Java, Javascript, SQL  
**Technologies:** Linux, AWS, REST, Grails, RDBMS, git