

# 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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- **Microsoft** Dublin  
*Senior Software Development Engineer, OMEX* April 2024 – Currently
  - **Software Engineering:** Design and developed features for Word Web application.
- **Microsoft** Dublin  
*Senior Software Development Engineer, Identity* June 2022 – April 2024
  - **Software Engineering:** Design and develop data pipelines, build telemetry aggregations for partner team business units analytics. Apply best practices and improve processes.
  - **Operations:** 24/7 on-call for data processing system. Providing support to partner teams with available telemetry. Address legacy gaps and improve system observability.
- **Amazon** Dublin  
*Software Development Engineer, AWS SES* June 2019 – June 2022
  - **Software Engineering:** Design and develop highly scalable distributed software systems. Implement software delivery best practices and improve processes.
  - **Operations:** Supporting system being highly available and meeting SLAs. Mitigate system wide, high impact issues.
  - **AWS Security Guardian:** Help service team to keep application security bar high.
- **Tencoins** Malta  
*Software Engineer* June. 2018 – Jan. 2019
  - **Software Engineering:** Design and develop core for cryptocurrency exchange service with microservice architecture. Create cryptocurrency wallets for Bitcoin, Ethereum, Tether (Omni layer).
- **Consulting, Self Employed**  
*IT Consultant* Sep. 2016 – June. 2019
  - **Consulting in IT:** Research projects domain. Build web-services (services with Django/Django REST, Postgres, AngularJS/ReactJS, mobile apps with Ionic).
- **Votetour**  
*CTO* Mar. 2017 – Sep. 2017
  - **Management:** Arrange software engineering workflow with continuous integration and test driven development practices.
  - **Business Development:** Building B2B relationship between airlines and Votetour company.
  - **Software Engineering:** Requirement analysis, architecture, design, and development cloud based platform for tourist collaboration, arrangement, and booking charter air flights through the world; a platform for partners airlines to arrange charter flights for a group of tourists.
- **Nebulytics** Moscow, Russia  
*Software Engineer* 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:** Requirement analysis, architecture, design, and development solutions for company customers, using Nebulytics platform.
- **DevOps:** Tuning load balancers. Configure the Elasticsearch/Logstash/Kibana stack for server performance monitoring. Work on tools serving existing code base (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 automatization:** 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 applied 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.

## SKILLS

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- **Languages:** Python, Java
- Technologies:** Distributed Systems, Linux, CI/CD, TDD, Agile, Microservices, Blockchain