

Mikhail Solodovnikov

March 2021

Email: miksolodovnikov@gmail.com

LinkedIn: mikhsol

GitHub: mikhsol

EDUCATION

- **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

- **Microsoft** Dublin
Senior Software Development Engineer, Identity June. 2022 – Currently
 - **Software Engineering:** Design and develop data pipelines, build telemetry aggregations for partner team business units analytics. Apply best practice 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 practice 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

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