Mikhail Solodovnikov

Email: miksolodovnikov@gmail.com
LinkedIn: mikhsol
GitHub: mikhsol

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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 higly 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