

---

## PAVEL SOLOMATIN

### SOFTWARE ENGINEER

#### Contacts:

mobile phone number: +31 64 466 1373

Email: [pavelsolomatin179@gmail.com](mailto:pavelsolomatin179@gmail.com)

(scientific) web-site: [psolomatin.com](http://psolomatin.com)

#### Personal Information:

Date of birth: 14.05.1991;

Place of birth: Russia, Moscow;

Citizenship: Russian;

Languages: Russian(native), English(fluent), Dutch(A2 naar B1).

#### Professional Experience:

- **Senior Scientific Software Engineer** at Nielsen, Rotterdam, The Netherlands(2022/05 — present time);

Main responsibilities: Backend software development with focus on mathematical aspects of the applications; providing guidance and support for less experienced engineers; shaping architecture and security sides of the application.

- **Software Engineer** at Ortec, Zoetermeer, The Netherlands(2018/03 — 2022/05);

Main responsibilities: Backend Software Development, DevSecOps and Security Lead.

#### Education:

- **PhD Researcher** at the Mathematical Institute, Leiden University, Leiden, The Netherlands: 2014/09 — 2018/01. Title: “Global Fields and Their L-functions”. Graduated: 03/2021, <https://scholarlypublications.universiteitleiden.nl/handle/1887/3147167>;
- **Master Degree** in Pure Mathematics, National Research University ‘Higher School of Economics’, Moscow, Russia — 2012/09 — 2014/08;
- **Bachelor Degree** in Pure Mathematics, National Research University ‘Higher School of Economics’, Moscow, Russia — 2008/09 — 2012/08;
- **Mathematical High School №179**, Moscow, Russia — 2004/09 — 2008/06.

#### Technology Stack:

##### Professional experience with:

- C# and ASP.NET;
- Delphi;
- DevOps and Scripting: Python, Powershell, Terraform;
- Datastorage: SQL, MongoDB;
- Tools: Azure and Azure DevOps, AWS, Gitlab, Jenkins, TeamCity, Git, Perforce, Jira, Visual Studio, Postman, Wireshark;
- Docker, K8s;
- Kali Linux.

##### Also familiar with:

- Systems of Computer Algebra: Magma, Sage/Pari, Wolfram, Latex.
-

---

**PAVEL SOLOMATIN**  
**SOFTWARE ENGINEER**

**Contacts:**

*mobile phone number:* +31 64 466 1373

*Email:* pavelsoломatin179@gmail.com

*(scientific) web-site:* psolomatin.com

**Professional interests:**

- Algorithms and Optimization;
- Cryptography, Computer Security;
- Penetration Testing.

**Grants and awards:**

- ALGANT doctoral scholarship, Leiden, The Netherlands(2014-2017);
- Grant from the Russian Academy of Science: 'Arithmetic Properties of Abelian Varieties over Finite and Function Fields', principal investigator professor Alexey Zykin. Moscow, Russia(2012-2013);
- Awards: best teacher according to the students choice of the joint HSE/NES Bachelor program.

**Research Publications:**

1. "Notes on Explicit Constructions of Arithmetically Equivalent Global Function Fields via Torsion Points On Drinfeld Modules", <https://arxiv.org/abs/2107.08250>;
  2. «A Note on Number Fields Sharing the List of Dedekind Zeta-Functions of Abelian Extensions with some Applications towards the Neukirch-Uchida Theorem», <https://arxiv.org/abs/1901.09243>;
  3. «A Remark on Abelianized Absolute Galois Group of Imaginary Quadratic Fields», (Joint Work with Bart de Smit), <https://arxiv.org/abs/1703.07241>;
  4. «On Abelianized Absolute Galois Group of Global Function Fields», (Joint Work with Bart de Smit), <https://arxiv.org/abs/1703.05729>;
  5. «On Artin L-functions and Gassmann Equivalence for Global Function Fields», <https://arxiv.org/abs/1610.05600>;
  6. «L-functions of genus two abelian coverings of elliptic curves over finite fields», <https://arxiv.org/abs/1601.05941>;
  7. «Curves with many points over finite fields: the class field theory approach», <https://arxiv.org/abs/1508.00267>.
-