
PAVEL SOLOMATIN
SOFTWARE ENGINEER

Contacts:

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Personal Information:

Date of birth: 14.05.1991;

Place of birth: Russia, Moscow;

Citizenship: Russian;

Languages: Russian(native), English(fluent), Dutch(beginner).

Professional Experience:

- **Senior Software Engineer** at Nielsen, Rotterdam, The Netherlands(2022/05 – present time);
Main responsibilities: Scientific Backend Development;
- **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;
- Kali Linux.

Also familiar with:

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