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## PAVEL SOLOMATIN

### SENIOR SOFTWARE ENGINEER

#### Contacts:

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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;

Permanent Residence: Leiden, the Netherlands.

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

#### 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.
- **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.

#### Professional Experience:

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

**Key responsibilities:** My expertise lies in backend software engineering with a strong emphasis on the mathematical components within application suites. This encompasses a wide range of responsibilities, such as analyzing, developing, evaluating, testing, and monitoring both the backend system and relevant infrastructure elements. I am also deeply involved in tasks like performance optimization and memory tuning. Furthermore, I actively contribute to shaping the application's architecture, especially its security aspects by playing a key role in preparing both the team and the product for internal and external security audits, offering valuable security assessments and guidelines to ensure robust protection. In addition to my technical roles, I also provide guidance and mentorship to less experienced engineers, supporting their growth and development in the field.

- **Software Engineer and Security Lead** at Ortec, Zoetermeer, The Netherlands(2018/03 – 2022/05);

**Key responsibilities:** backend Software Engineering, DevSecOps and Security Lead in the OWS and Healthcare departments. In this multifaceted role, in addition to my regular engineering tasks, I devoted significant effort to strengthening our software development processes, implement best operations practices( for instance to comply with [ISO-27001](#) and [NEN 7510](#)), and fortify overall system security by developing and integrating various security tools and policies, such us: Whitesource for 3rd party packages management, automations for Azure security policy compliances, multiple custom tools and scripts(an example of such a tool is available in [my blog](#)). In addition to that I conducted and organised internal and external penetration testing.

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**Technology Stack:**

**Professional experience with:**

- C# and ASP.NET;
- DevOps and Scripting Languages: Python, Powershell, Terraform, Kotlin;
- Cloud: Azure and Azure DevOps, AWS;
- CI/CD: Gitlab, TeamCity, Jenkins, Git, Perforce;
- Tools: Docker, K8s, Visual Studio, Postman, Wireshark, RabbitMQ, SQL, MongoDB;

**Also familiar with:**

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

**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.

**Mathematical Research Publications:**

- "Notes on Explicit Constructions of Arithmetically Equivalent Global Function Fields via Torsion Points On Drinfeld Modules", <https://arxiv.org/abs/2107.08250>;
  - «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>;
  - «A Remark on Abelianized Absolute Galois Group of Imaginary Quadratic Fields», (Joint Work with Bart de Smit), <https://arxiv.org/abs/1703.07241>;
  - «On Abelianized Absolute Galois Group of Global Function Fields», (Joint Work with Bart de Smit), <https://arxiv.org/abs/1703.05729>;
  - «On Artin L-functions and Gassmann Equivalence for Global Function Fields», <https://arxiv.org/abs/1610.05600>;
  - «L-functions of genus two abelian coverings of elliptic curves over finite fields», <https://arxiv.org/abs/1601.05941>;
  - «Curves with many points over finite fields: the class field theory approach», <https://arxiv.org/abs/1508.00267>.
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