
PAVEL SOLOMATIN, PH.D.

SOFTWARE ENGINEER

Personal Information:

Date of birth: 14.05.1991
Citizenship: Russian, Dutch
Permanent Residence: Leiden, The Netherlands
Languages: Russian(native), English(fluent), Dutch(intermediate)

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Summary

Software Engineer with a PhD in Mathematics and 8+ years of experience in distributed cloud systems and platform security. Specialized in designing high-availability infrastructure (99.999%), secrets management, and scalable backend services. Proven track record of leading technical initiatives with complex scientific components, mentoring engineers, and driving DevSecOps maturity in global organizations like Uber and Nielsen.

Education:

- **PhD Researcher (Mathematics)** | Leiden University | Leiden, The Netherlands | Sep 2014 — Jan 2018 | Thesis: "[Global Fields and Their L-functions](#)".
- **Master of Mathematics** | National Research University 'Higher School of Economics' | Moscow, Russia | Sep 2012 — Aug 2014
- **Bachelor of Mathematics** | National Research University 'Higher School of Economics' | Moscow, Russia | Sep 2008 — Aug 2012

Professional Experience:

Software Engineer | Uber | Amsterdam, The Netherlands | Sep 2025 — Present

- **Platform Security & Infrastructure:** Engineered critical internal tools to fortify the company's security posture at scale. Developed and maintained high-availability backend services, specifically managing HashiCorp Vault infrastructure that secures hundreds of thousands of secrets with 99.999% reliability.
- **Vulnerability Management & Data Protection:** Designed automated secrets detection pipelines that proactively identified and mitigated multiple company-wide vulnerabilities. Championed data protection initiatives to secure sensitive information flows, bridging the gap between infrastructure operations and software development.
- **Technical Leadership:** Actively contributed to team growth by leading technical initiatives and mentoring interns, guiding them through the full engineering lifecycle to deliver production-grade security features.

Senior Scientific Software Engineer | Nielsen | Rotterdam, The Netherlands | May 2022 — Sep 2025

- **Backend & Mathematical Engineering:** Focused on backend software engineering with a strong emphasis on the mathematical components within application suites. Responsible for the full development lifecycle, including analyzing, developing, evaluating, testing, and monitoring backend systems and infrastructure elements.
 - **Performance & Cost Optimization:** Led initiatives in performance optimization, memory management, and cloud cost tuning. Authored technical documentation and blog posts regarding significant cloud cost savings achieved through [Horizontal Pod Autoscaling \(HPA\)](#) strategies.
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- **Security Architecture & Auditing:** Shaped application architecture with a focus on security. Played a key role in preparing the team and product for internal and external security audits, providing comprehensive security assessments and guidelines to ensure robust protection.
 - **Leadership & Mentorship:** Provided technical guidance and mentorship to less experienced engineers to support their growth. Managed the interview process for new hires, conducting 50+ technical assessments for candidates ranging from junior to senior levels.

Software Engineer & Security Lead | Ortec | Zoetermeer, The Netherlands | Mar 2018 – May 2022

- **Cloud-Native Transformation & API Design:** Engineered backend API solutions for the Ortec Workforce Scheduling (OWS) and Healthcare departments. Led the architectural migration for multiple high-profile clients, converting legacy on-premises systems into scalable, cloud-native solutions.
- **Engineering Excellence & Reliability:** Drove a culture of quality by implementing comprehensive unit and integration testing suites, significantly increasing code coverage. Utilized advanced debugging and profiling techniques to resolve critical performance bottlenecks in distributed systems.
- **Security Leadership & Compliance:** Served as the Security Lead. Spearheaded the strengthening of software development processes and operational practices to achieve compliance with [ISO-27001](#) and [NEN 7510](#) standards. Fortified system security by developing and integrating automated security policies. Implemented Mend (formerly WhiteSource) for third-party dependency management and built custom automation for Azure security policy compliance. Authored technical deep-dives on custom tooling and security resilience ([available on personal site](#)). Organized and conducted internal and external penetration testing sessions to identify vulnerabilities and validate security controls.

Technology Stack:

- **Primary stack:** Go, C# and [ASP.NET](#)(Framework, Core, Net7).
 - **Experience with DevOps, scripting, and various languages/frameworks including:** Python, PowerShell, Terraform, NestJS, Delphi, Scala.
 - **Cloud and Telemetry:** AWS, GCP, Azure, Docker, Kubernetes, Grafana, Kibana, Jaeger.
 - **Version control and CI/CD:** GitHub, GitLab, TeamCity, Jenkins, Git, Perforce.
 - **Selected Tools and Platforms:** Visual Studio, Cursor, Postman, Wireshark, Burp Suite, RabbitMQ, SQL, PostgreSQL, MongoDB, Kali Linux.
 - **AI-Assisted Development:** Advanced workflow integration using LLMs (Claude, Gemini) and RAG tools like NotebookLM for technical synthesis.
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