

Mateusz Gajewski

Experienced senior staff software engineer, open-source contributor & maintainer.

Contact

E-mail: mateusz.gajewski@gmail.com Github: [@wendigo](https://github.com/wendigo)
Phone: +48 660170120 LinkedIn: [mateuszgajewski](https://www.linkedin.com/in/mateuszgajewski)
Location: Warsaw, Poland / remote

I am an experienced senior staff software engineer, architect & open-source maintainer, versed in designing and building high quality, scalable, low-latency, distributed systems. For 20 years I've been programming in various languages, building different architectures, using plethora of technology stacks, always trying to find and use just the right tools in a given problem space. I enjoy working with modern and comprehensive codebases, therefore I spend a lot of my time and energy improving it for others. Up-to-date list of publications, certifications, attended conferences and courses are available on my LinkedIn profile.

Skills

- Java (up to 25)
- Trino/Hadoop/Hive
- Go
- distributed systems
- microservices
- containers
- kubernetes
- domain-driven design
- performance engineering
- security engineering
- process automation
- reverse engineering

Experience

2019 — now **Senior staff software engineer, open-source contributor & maintainer**

Starburst Data / Boston, Warsaw / Remote

Keywords : [Java \[11, 25\]](#), [Maven](#), [Kerberos](#), [query optimization](#), [MPP](#), [mechanical sympathy](#), [reverse engineering](#)

Senior individual contributor (previously leading a team of up to 6 engineers), improving [Trino query engine](#) and [Starburst Enterprise](#) platform. Contributing to the majority of the engine's areas — from the user-facing APIs and the wire protocol, through the analyzer, optimizer and IR, down to distributed execution — with a sustained focus on performance, code quality and long-term project health. Performance work spans allocation- and copy-free hot paths, cache-friendly data structures, reduced lock contention and faster serialization, applying mechanical sympathy from SQL planning down to the JVM and memory layout. Designed the next-generation spooling wire protocol. Upgraded both products through successive JDK releases (17, 22 and 25); 1000+ merged pull requests to the open-source engine alone. Heavy adopter of AI-assisted engineering, using agentic coding tools for research, prototyping and executing large-scale changes.

2017 — 2019 **Consultant, advisor, mentor**

various startups & SMEs / Warsaw / Remote

Keywords : [system design](#), [distributed architectures](#), [strategic DDD](#), [event storming](#)

As an advisor I worked with different companies (of various sizes and maturity) to help them gain skills needed for transforming their culture, technology stack, architecture, processes and systems while introducing innovative technologies to the existing systems. I mentored teams, leads and architects on how to build scalable, extensible architectures

while integrating them with legacy systems. My work involved conducting technical due diligence, technical debt assessments, workshops and trainings.

2009 — 2017 **Solution architect, staff software engineer**

Allegro / Poznań, Warsaw

Keywords : [Java](#), [PHP](#), [microservices](#), [OCI](#), [Mesos](#), [domain-driven design](#), [monoliths](#)

During my 8 years in Allegro, I've worked on both the old monolith application (16M+ LoC in PHP/C++) and as a first solution architect in the company, I've lead an initiative to design and execute on new architecture idea that eventually led to breaking large, monolithic platform into the set of 1000+ microservices deployed on the container orchestration platform. During this time, I've been conducting workshops and trainings, teaching new technologies and methodologies. I was mentoring teams, leading R&D projects, speaking at conferences and hiring new engineers.

Education

2009 — 2013 **Computer science**

University of Technology / Poznań

Open-source projects

- **Trino (previously known as PrestoSQL)**

Java / github.com/trinodb/trino

I'm a contributor and maintainer of the open-source, massively parallel SQL query execution engine, working across most of the project.

- **chrome-protocol-proxy**

Go / github.com/wendigo/chrome-protocol-proxy

Tool that makes it easier to work with the chrome debugger API while developing tools and integrations with it.

Languages

- Polish (native)
- English (advanced)

Interests

- cycling, scuba diving and swimming,
- supporting pro-democratic initiatives,
- attending live music shows and playing drums,
- type_{sett}^{ing} and typography

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