Aleksander Wiśniewski

Warsaw, Poland | hello@alekwisniewski.dev | github.com/alekwisniewski

Backend engineer with 6 years of experience building analytical data systems over billion-row datasets. Introduced ClickHouse (four production clusters, ∼15 TB), Airflow pipelines, and OpenTelemetry-based observability at a data analytics startup; primary engineer on an LLM agent on Claude that answers natural-language questions by generating and executing ClickHouse SQL. Shipped products end-to-end with minimal oversight, from ingestion to production APIs and client dashboards. Based in Warsaw, open to remote.

Experience

Backend Software Engineer March 2022 – June 2026

Cookie3 *Warsaw*

- Core backend engineer at a social and crypto-market data analytics startup; independently designed and shipped many backend products end-to-end, from ingestion to production APIs
- Introduced ClickHouse as the core analytical database for all B2B/B2C products and designed its four production clusters (up to 8 shards / 7 replicas, ∼15 TB total), choosing sharding vs. replication per workload
- Delivered high-performance analytics services in C#, Python, and Rust: ingestion, transformation, MergeTree schema design with materialized views and projections, and serving aggregations to client dashboards
- Brought in Airflow for ingestion and transformation pipelines into ClickHouse (50+ Python DAGs team-wide)
- Established OpenTelemetry-based observability at the company: traces, metrics, and logs from every service into a self-hosted Grafana, Loki, Prometheus, and Tempo stack, later also ClickStack
- Primary engineer on the Cookie AI agent, a chat product answering complex natural-language questions over billions of rows; built the harness around Claude (Sonnet and Opus): grounding in per-table docs, a domain glossary, and query patterns, ClickHouse SQL generation and execution, per-user context, and multi-tenancy; alpha drew strong feedback from early testers and businesses
- Developed B2B APIs and MCP servers exposing the company's datasets to business clients for programmatic and LLM-agent access
- Built the backend of cookie.fun, the flagship B2C product (1.6M unique visitors, Nov. 2024 – Sep. 2025), serving trend, sentiment, abnormal-activity, and top-creator analytics
- Designed a graph-based account-quality scoring system (engagement and following-graph analysis over a labeled seed set) to filter bots and engagement farmers out of social campaigns
- Built CI/CD with the team: GitHub Actions pipelines deploying Docker Compose services to Hetzner

Junior Software Engineer June 2020 – July 2022

AXA – Avanssur *Warsaw*

- Built .NET APIs for insurance data and optimized production MSSQL queries behind core business processes
- Worked full-stack on a home-insurance quote form (Angular/TypeScript frontend, .NET/MSSQL backend)
- Built internal developer tooling, including a Visual Studio extension

Technical Skills

Languages: C#, Python, SQL, Rust, TypeScript, Go
Data & Infrastructure: ClickHouse, Airflow, PostgreSQL, Redis, RabbitMQ, Elasticsearch, MongoDB, Neo4j, Docker Compose, GitHub Actions, Kubernetes (GKE), Terraform
Observability: OpenTelemetry, Grafana, Loki, Prometheus, Tempo, ClickStack
AI / LLM: text-to-SQL agent harnesses (Claude), MCP servers, AI-assisted development (Claude Code)

Education

University of Warsaw Oct. 2022 – Nov. 2024

Master's degree in Computer Science

Warsaw University of Technology Oct. 2017 – March 2021

Bachelor of Engineering in Computer Science