Aliaksandr **Kazlou**

SENIOR SOFTWARE ENGINEER

Warsaw, Poland

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Summary

Senior Full-Stack Engineer with a strong focus on **system architecture, security, and performance optimization**. Proven track record of driving technical initiatives that directly impact business efficiency—from leading complex framework migrations to re-architecting data synchronization processes that **reduced infrastructure load by 90%**.

Expert in diagnosing performance bottlenecks (**optimizing SQL execution times by 99%**) and preventing critical security vulnerabilities. I combine deep technical expertise in **.NET and modern frontend frameworks** with a product-oriented mindset, ensuring that engineering decisions align with business goals and minimize long-term technical debt.

Work Experience

Kaseya   *Warsaw, Poland*
Senior Software Engineer   *Jul. 2021 - Present*

MYITPROCESS PLATFORM

- **Infrastructure Optimization:** Architected a resource-efficient data synchronization mechanism, reducing Kubernetes pod count **from 10 to 2** and decreasing endpoint load **by 90%**.
- **Platform Migration:** Led a critical migration from Angular 15 to 19 to resolve security vulnerabilities; maintained delivery speed by patching incompatible dependencies (contributed fixes to xng-breadcrumb).
- **Performance Tuning:** Diagnosed and resolved critical database bottlenecks, reducing query execution time **from 30s to <500ms** via execution plan analysis and custom indexing.
- **Security Engineering:** Designed and implemented an automated credential rotation tool for Azure KeyVault and production databases, resolving long-standing security risks within the cluster infrastructure.

PropertyDealGenie   *Remote, Worldwide*
Lead Software Engineer   *Jun. 2020 - Jun. 2023*

STARTUP FOR UK PROPERTY INVESTMENT EVALUATION

- **Team Leadership:** Led the backend architecture and a team of up to 3 developers in a polyglot environment (.NET, Node.js, Python), overseeing the delivery of ∼25 microservices.
- **Geospatial Optimization:** Engineered a high-performance map clustering service using Node.js, achieving data rendering times of **<100ms** at any zoom level.
- **Computer Vision (R&D):** Developed a Python-based algorithm to extract property square footage from floor plan images, achieving ∼**70% accuracy** and automating manual data entry.
- **Data Engineering:** Built a continuous data ingestion (ETL) pipeline to scrape and process UK property data, automating ROI calculations and metrics updates.
- **Search Performance:** Implemented a geospatial search engine for nearby amenities (schools, transport), optimizing queries to consistently return results in **<500ms**.
- **API Standards:** Streamlined frontend integration by enforcing self-documented API standards using Swagger for REST and Altair for GraphQL.

Godel Technologies Europe   *Minsk, Belarus*
Senior Software Engineer   *Mar. 2021 - Jul. 2021*

FINANCE MANAGEMENT SYSTEM (FINTECH)

- Spearheaded the adoption of Microfrontend (MFE) architecture, designing a custom orchestrator to decouple deployment cycles, reducing release dependency risks by **approx. 40%**.
- Conducted technical due diligence for architectural changes, ensuring seamless integration with existing financial reporting tools with **zero downtime** during migration.

Godel Technologies Europe   *Minsk, Belarus*
Software Engineer   *Nov. 2017 - Mar. 2021*

MULTIPLE PROJECTS (TRAVEL & INSURANCE DOMAINS)

- **Identity & Security:** Modernized authentication infrastructure by migrating to OAuth 2.0 and Dockerizing services, cutting environment setup time for new developers **from days to hours**.
- **Metaprogramming:** Designed a dynamic business rules engine that compiled UI-defined logic into executable C# code, reducing the "time-to-market" for new pricing rules **by 90%** (eliminating need for code releases).
- **Legacy Modernization:** Refactored monolithic legacy systems for UK-based travel clients, extracting core logic into maintainable modules and improving SQL query performance **by ∼30%**.
- Owned the "Flight Search" feature, optimizing the pricing engine to handle complex multi-leg itineraries while maintaining sub-second response times under high load.

Paralect *Minsk, Belarus*

Software Engineer *Aug. 2016 - Aug. 2017*

Logistics & Fintech Startups

- Developed high-load backend services using CQRS and Event Sourcing patterns, ensuring **99.9% data consistency** across distributed systems.
- Migrated full-text search from Lucene to a scalable Elasticsearch cluster, speeding up search query execution **by over 5x** for large datasets.

Education

BSUIR(Belarusian State University of Informatics and Radioelectronics) *Minsk, Republic of Belarus*

B.S. in Computer Science and Engineering *Sep. 2014 - Jun. 2018*

Extracurricular Activity

Kaseya University *Warsaw, Poland*

Lecturer & Technical Mentor *Jul. 2021 - Present*

Internal Education Program

- Design and deliver advanced technical workshops on Containerization (Docker, Kubernetes) and Version Control workflows (Git, TFS) for engineering teams.
- Mentor junior and mid-level developers, conducting code reviews and guiding them through architectural best practices.

Godel Technologies .NET Division *Minsk, Belarus*

Lecturer & Mentor *Jan. 2019 - Jul. 2021*

External .NET Training Courses

- Authored and conducted a comprehensive training curriculum on .NET ecosystem and DevOps basics for over 50 students.
- Facilitated technical growth of trainees through regular 1-on-1 feedback sessions, code assignments review, and career guidance.