

# Ilya Zinkovich

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I have 6-years of professional experience in software engineering, building reliable, performant, and secure backend services primarily in Java on AWS. I deliver impactful large-scale technical projects end-to-end in a fast-paced environment, manage technical quality, lead efficient and innovative product-development teams.

## WORK EXPERIENCE

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### Careem

Berlin, Germany

#### *Senior Software Engineer at Marketplace Dispatching*

*January 2020 - Present*

I am a Tech Lead in a team of 2 Software Engineers and 1 Data Scientist optimizing dispatching algorithms for the food delivery service. I focus on streamlining product development; lead complex technical projects end-to-end; interview, onboard, and mentor other software engineers.

- Developed the **delayed assignment** algorithm that reduced the food delivery time by 10%.
- Developed the **dynamic batching** of incoming orders using Redis that, in conjunction with a **domain-specific dispatching** algorithm, increased couriers' efficiency by 5%.
- Developed the **pooling** of incoming orders for high-demand restaurants increasing couriers' efficiency by 30%.
- Built a lightweight **engineering process** reducing the average delivery cycle time from 7 to 3 days. Fostered a culture of writing standardized solution **specification documents** that formed an essential knowledge base and evolved into the team's **strategy and vision**.

#### *Software Engineer at Marketplace Dispatching*

*2019 - January 2020*

I joined the team to stabilize dispatching services with high availability requirements and active feature development. I focused on service reliability and operational excellence; led ambitious infrastructure projects end-to-end and cultivated the best DevOps practices.

- Re-designed a critical part of the dispatching system to perform **deterministic assignments in the concurrent environment** using DynamoDB. I fully decommissioned the legacy service with its infrastructure, simplifying the system architecture, and cutting costs by 30%.
- Developed **stress-testing tools** based on JMeter, WireMock, and Terraform to assess the reliability and performance of dispatching services. I tested failure scenarios at the comfort of the staging environment, identified flaws in the circuit breaker configuration, tuned garbage collection, and verified the production-readiness of the major architecture changes.
- **Containerized** Java and Spring-based web services using Docker, preparing them for the migration from ElasticBeanstalk to Kubernetes.
- Set up **monitoring and alerting** for dispatching services using Prometheus and Grafana.
- Constructed **CI/CD** pipelines on Jenkins with automated infrastructure provisioning using Python and Terraform.
- Led the AWS **cost-saving** effort. Adopted spot instances in the staging environment and implemented the scheduled scaledown saving 70% of EC2 costs.
- Worked **on-call**, handling overnight incidents, and writing high-quality incident reports.

I focused on a strategic initiative to enable multi-region deployments.

- Developed a **sharding key populator** job for one of the largest MySQL installations on AWS. Recreated the sharding key for the billions of existing database records and built an SDK to populate it for the new ones automatically.
- Developed **sharding, rate-limiting, and monitoring** of the incoming requests for the Zuul-based API gateway.

## **EPAM Systems**

Minsk, Belarus

*Senior Software Engineer at Legal Q&A*

*2017 - 2018*

- **Migrated a legacy Sharepoint portal** to the newly created web app based on Spring Boot, AngularJS, and Oracle DB. Led the team of 3 Software Engineers.

*Software Engineer at Practical Law UK and Westlaw UK*

*2016 - 2017*

- Developed **search autocomplete** using ElasticSearch.
- Integrated diverse **search, alerting, and research-organizer functionality** into the new suite of legal Thomson Reuters products.

*Junior Software Engineer at WestlawNext*

*2015 - 2016*

- Fixed **critical bugs** in search, alerting, research-organizer, and cross-reference services.

## **EDUCATION**

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**Belarusian State University**

Minsk, Belarus

*Bachelor of Science in Applied Mathematics and Computer Science*

*2012 - 2017*

## **TECHNICAL SKILLS**

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- **Languages:** Java, Kotlin, Python.
- **Technologies:** Spring, Ktor, AWS, Kubernetes.
- **Other:** DDD, FP, OOP, microservices, API design, relational and non-relational databases, caching, async messaging, observability, CI/CD, infrastructure-as-code.

## **COMMUNITY WORK**

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- Technical blogging on [ilyazinkovich.github.io](https://ilyazinkovich.github.io). Popular articles include [Caching Without Compromises and Spring](#) and [Demystifying the Magic of @Async](#).
- Q&A on [StackOverflow](#). I answer questions mainly about [Spring](#) and [reactive programming](#).

## **CERTIFICATIONS**

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- [AWS Solution Architect - Associate](#).