

# Anton Khokhlov

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[GitHub](#) [Telegram](#)

## Experience

### Senior Software Engineer at PAYS LLC, Moscow, Russia

Sep 2018 – present

The company develops applications for paying traffic tickets and buying car insurance policies. It is the leader in its market. Available on Apple Store, Google Store, <https://bip.ru>. IT infrastructure consists of several services hosted in the cloud.

- Designed and implemented a mission-critical microservice responsible for mobile push notifications. The design included a data model, service contract, and internal data flow. Service supports several key features, such as building a message by a predefined template, distributing notifications within a day, and consolidating push notifications of the same kind that target the same user, not to overwhelm them with the count of notifications received. Had to take into account scalability and resiliency requirements. Implemented that service with the team by design. The service usually proceeds around 5 million messages per working time of a day (not evenly distributed) and can handle up to 10 times heavier load, according to our metrics analysis. Deployment does not cause any disruption. K8s, Azure DevOps, Prometheus + Influx DB + Grafana, PostgreSQL (SaaS).
- Covered our microservices orchestra and main backend app with metrics and alerting tracing, which let us quickly react to issues and analyze improvements.
- Improved throughput of our reusable NuGet database component by memory dump analysis. It can now handle up to 10 times more queries in a time frame, measured by API request time spent.
- Refactored a complex process that notifies users about events in the system. Reduced the delay in delivering the information to the end-user from seven hours to three minutes and prevented 10% - 20% of the events from being lost.
- Designed a set of services communicating via RabbitMQ for gathering data from external APIs, which increased the availability of the most recent information in the system by 10%.
- Led implementations of those services in the backend team.
- Developed reusable NuGet packages for queues processing, metrics, database interactions.
- Performed code reviews, maintained more than 10 repositories and overall backend architecture.

### Senior Software Engineer at EPAM Systems, Inc, Moscow, Russia

Aug 2016 – Aug 2018

Development of complex in-house banking software using ASP.NET MVC 5.

- Reimagined a process of batch document generation to make it reliable and fault-tolerant. Previously a user had to monitor it for several hours inseparably. After the redesign, the process works in the background, supports recovery, and lasts for half an hour.
- Performed ~30 tech interviews and mentored a dozen of backend software engineers.
- Developed plugins for event-oriented processing of incoming data.

### Software Engineer at DMD Ltd, Krasnoyarsk, Russia

Apr 2012 – Aug 2016

Development of custom MES, ERP, and IoT systems with a wide range of tools.

- Led a team of three developers and one QA developing MES software for a chain of metallurgical factories. Communicated with our customers a lot, working trips, requirements analysis.
- Resolved a long-lasting archaic issue with intensive memory consumption of our app using profilers.
- Launched more than seven projects successfully.

## Education

Specialist's (MS) degree in Computer Science, Siberian Federal University

**Certifications:** Microsoft CP (2016), Microsoft Specialist – C# (2016)

## Skills

**Programming Languages:** C#, SQL, JavaScript, HTML, CSS

**Technologies and Frameworks:** .NET (4.8-7), ASP.NET, Entity Framework, MS SQL, PostgreSQL, RabbitMQ, Redis, Git, Azure, GCP, Docker, Kubernetes, Grafana, Prometheus, NoSQL, Linux