

# Artem Shmelev *Software Engineer | Backend Developer*

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As a Software Engineer at Yango, I develop the backend for the mobile app that connects drivers and passengers in multiple countries. I have 9 years of diverse experience in backend development, working with technologies such as Python, Go, C++, C#, MongoDB, PostgreSQL, and ClickHouse. My passion is designing and architecting complex systems that drive business growth and enhance end-user experiences. I am always eager to learn new skills (now I am preparing for AWS Associate exam), stay current with cutting-edge technologies, and contribute to innovative and efficient solutions. My goal is to leverage my technical strengths and domain expertise to create value for employers and customers.

## 🧠 Skills

**Languages** (C++, Python, Golang, Javascript, C#) • **Databases** (MySQL, MongoDB, PostgreSQL, Tarantool, Clickhouse, Redis)

**Tools** (API, Backend, microservices, Docker, Kafka, Git, Bash, SQL) • **Other** (Agile Methodologies, Curious to learn new things, English B2)

## 📁 Professional Experience

01/2023 – present

**Yango, Software Engineer (Remote)**

- Optimized and reduced costs of Google Maps API by 90%.
- Delivered integration of messenger

07/2021 – 01/2023

**Yandex, Software Engineer**

Successfully completed major international projects at Yandex.Taxi.

**Technical Stack:** C++, Python, C#, MongoDB, PostgreSQL, OpenAPI, and numerous in-house technologies.

- Enhanced the product quality by initiating the process of gathering localization errors on the app backend.
- Independently led and launched the payment top-ups feature in the driver app, streamlining the transaction process.
- Spearheaded and executed integrations with taxi meters across multiple countries, improving service efficiency and accuracy.

08/2020 – 12/2022

**Practicum by Yandex, Code Reviewer**

Evaluated students' assignments on the Algorithms course and shared my expertise.

12/2014 – 07/2021

Moscow, Russia

**Mail.ru Group, Software Engineer**

Developed an advanced, high-performance targeted advertising system at the myTarget department, which significantly improved efficiency.

**System Capabilities:** Over 350k requests per second, with a response time of 50-100ms.

**Technical Stack:** C++, Go, Python, MySQL, Clickhouse, Tarantool, CMake, k8s, Kafka, ZeroMQ.

- Streamlined team development and facilitated more frequent releases by implementing the first version of CI/CD (Jenkins + Docker + Puppet) from scratch and integrating tests (Python instead of Bash).
- Drastically improved the statistic service response time (from seconds to milliseconds) by successfully migrating from MySQL to Clickhouse.
- Enhanced the banner system's reliability by transitioning from UDP to ZeroMQ for passing statistic information.
- Introduced Golang to the team's technology stack by developing a Go microservice for gathering online and offline statistics while also integrating infrastructure for its build and deployment.
- Delivered numerous new product features, including new targetings for advertisers and support for offline conversions.
- Simplified team development by partially transitioning a large C++ monolith service into Go/k8s microservices.

## 🎓 Education

2015 – 2017  
Moscow, Russia

**Master's degree, Applied Mathematics, Moscow Institute of Physics and Technology (MIPT)**

Pursued studies at the Computer Science Department, advancing my skills and knowledge in the field.

2011 – 2015  
Moscow, Russia

**Bachelor's degree, Applied Mathematics, Moscow Institute of Physics and Technology (MIPT)**

## 📁 Projects

2014 – 2021

**libslave, <https://github.com/artshmelev/libslave>**

Assisted the team in upgrading the MySQL cluster from version 5.5 to 5.7, enabling the utilization of new database features by actively contributing to an open-source library.