# Sam Shaplygin

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## Summary

Senior Software Engineer with 8+ YoE designing high-performance distributed systems using **Go** and **Rust**. Proven track record at top-tier tech companies (Yandex, Avito, Ozon) optimizing high-load architectures to handle millions of requests/day. Expert in driving business growth through technical excellence, achieving up to **56% revenue uplift** and **72% latency reduction**. Experienced in system design, mentoring and open-source contribution.

## Technical Skills

**Languages**: Golang, Rust, Python3, JavaScript, SQL, YQL
**Data & Messaging**: PostgreSQL, YDB, ClickHouse, Redis, Apache Kafka, SQS
**Infrastructure**: Kubernetes, AWS, YCloud, Docker, CI/CD, Linux, Ansible, Terraform
**Concepts**: System Design, Microservices, TDD, REST, gRPC, High Availability, Scrum, Agile, DevOps

## Experience

**Senior Software Engineer (Promoted from SE in Oct. 2024)** Sep. 2023 - Present
***Yandex*** — *The largest technology company in CIS(Search, ML, Cloud)* *Belgrade, Serbia*

- Designed and launched a platform delivering **contextual ML-based suggestions** across the Search bar and mobile feed, handling high-load user traffic.
- Enabled trigger-based suggestions (Finance, Real Estate, Insurance), achieving a **2.3–5.5x higher conversion rate** compared to push notifications.
- Boosted Real Estate vertical performance: **+1.89% sessions** and **+10% listing clicks**. Increased Finance traffic by 1,000 daily sessions (**0.5%** of total vertical traffic).
- Built a mixed feed on ya.ru (Market & Rhythm), increasing ad **revenue by 56%** for the service.
- Architected and migrated user settings (yandex.ru/tune) from a legacy Perl/Node.js system to a Go-based microservice architecture, including CI/CD provisioning.
- Built a referral system backend, increasing **promo leads by 14.3%** and user registration success rate by **32.7%** (via simplified Yandex ID flow).
- Implemented automated bonus fund withdrawals to bank cards, achieving a **45% higher conversion rate** compared to phone balance withdrawals.
- Launched the backend for the new 'a.ya.ru' portal, helping acquire **2 million new subscribers** for Alice Pro.
- Migrated international web clients to a Go-based homepage, reducing P95 response time by **10%** (new clients) and **72%** (legacy clients).
- Rewrote banner serving logic from Perl to Go, reducing CPU consumption by **106 cores** and improving latency by **13.4%**.
- **Leadership:** Conducted 36 technical interviews and mentored colleagues on algorithmic interview standards.
- **Open Source:** Released internal linters yandex/go-linters and implemented 'bulkUpsert' in ydb-rs-sdk (Rust).

**Software Engineer** Jan. 2022 - Aug. 2023
***Avito*** — *World's top-ranked classifieds site by traffic* *Moscow, Russia & Yerevan, Armenia*

- Implemented traffic load balancing for in-app GSM operator calls (Top-10 high-load service).
- Developed map-based delivery point filtering, reducing user search time by **38%**.
- Optimized audio file processing, reducing RAM consumption by **56%**.
- Designed a unified call history service for secured numbers, cutting duty engineer investigation time by **28%**.
- Migrated Pro-user call functionality from PHP to Go, enhancing performance and maintainability.

**Software Engineer** Apr. 2021 - Jan. 2022
***SberMarket*** — *Leading e-grocery delivery service in Russia* *Moscow, Russia*

- Redesigned marketing ad tools and sampling services infrastructure.
- Developed full-stack (Backend/Frontend) features for the Brand Ads platform.
- Integrated banner ads across desktop and mobile platforms, optimizing inventory placement.

**Software Engineer** Jan. 2020 - Apr. 2021
***Ozon*** — *Second largest e-commerce marketplace in CIS (NASDAQ: OZON)* *Moscow, Russia*

- Developed SSO (Single Sign-On) authorization for B2C and B2B clients.
- Implemented SmartLock authentication for Android devices.
- Designed a user data change notification service and anti-fraud protection against TOTP brute-force attacks.

**Software Engineer** Dec. 2018 - Jan. 2020

***SberBank*** — *The biggest bank of East Europe* *Moscow, Russia*

- Developed a backend gateway securing mission-critical access to personal user accounts.
- Designed architecture for SIRP (Intelligent Routing and Processing), including load balancing and authorization.

**Software Engineer** Apr. 2018 - Dec. 2018

***Biletix.ru*** — *Online travel sales* *Moscow, Russia*

- Developed backend for booking engine for railway by CIS (Russia, Belarus, Kazakhstan)
- Optimized ticket booking pipeline speed by **35%** and doubled route search performance.

## Projects & Achievement

**Yandex Cup Top-15** | *Golang, Algorithms* Nov. 2025

- Achieved Top-15 rank in the Backend Qualification round among all employees in the annual coding competition.

**VPN Service Bot** | *Go, Python, PostgreSQL, YCloud* Mar. 2023 – Present

- Founder and developer of a Telegram bot for automated VPN configuration and payments, providing secure internet access.

**Open Source** | *Go, WebSockets*

- Maintained **go-socket.io** library (Dec. 2019 - Sep. 2024).
- Created **docs-code**, a Go library for validating Russian document codes

## Education

**National Research University of Moscow Power Engineering Institute** Moscow, Russia

*M.S in Management Information Systems* *Sep. 2017 – Jul. 2019*

**National Research University of Moscow Power Engineering Institute** Moscow, Russia

*B.S. in Management Information Systems* *Sep. 2013 – Jul. 2017*