

Artem Shmelev Software Engineer / Backend Developer

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I am a software engineer with over **10 years** of experience, specializing in backend development and architecture. I am proficient in a variety of programming languages and technologies, including **Python, Go, C++, NodeJS, LLM/AI**. I have a strong understanding of software development best practices and am always looking for ways to improve my skills and knowledge. I actively use AI-powered IDEs (VS Code with Copilot/Continue.dev). I strive to stay up-to-date with current technologies and contribute to innovative and effective solutions. My goal is to use my technical skills and subject area knowledge to create value for employers and clients.

🧠 Skills

Python Golang C++ JS/TS/Node.js PostgreSQL/MongoDB Docker/Git/Bash/SQL
API/microservices/Kafka English B2 LLM/AI/OpenAI API/LangChain

🏢 Professional Experience

- 01/2023 – present **Yango, Software Engineer**
Develop the backend for the Yango mobile app.
Tech Stack: Python, C++, MongoDB, PostgreSQL.
• Optimized and reduced Google Maps API costs by 90%.
• Implemented messenger integration.
• Developed a P2P marketplace, including content moderation and in-app chat integration.
- 07/2021 – 01/2023 **Yandex, Software Engineer**
Successfully completed major international projects at Yandex.Taxi.
• 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 (Golang, Algorithms)**
Evaluated students' assignments on the Algorithms course and shared my expertise.
- 12/2014 – 07/2021 **Mail.ru Group, Software Engineer**
Developed an advanced, high-performance targeted advertising system at the myTarget department (over 350k requests per second, with a response time of 50-100ms)
Tech 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 statistics service response time (from seconds to milliseconds) by migrating from MySQL to ClickHouse.
• Enhanced the banner system's reliability by transitioning from UDP to ZeroMQ for transmitting statistics.
• 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.

🎓 Education

- 2015 – 2017 **Master's degree, Applied Mathematics, Moscow Institute of Physics and Technology**
Studied in the Computer Science Department, further advancing my skills and knowledge in the field.
- 2011 – 2015 **Bachelor's degree, Applied Mathematics, Moscow Institute of Physics and Technology**

📁 Projects

- 2024 - 2025 **MemeCreator Telegram App, https://t.me/create_meme_bot?startapp**
Developed from scratch: OpenAI API, Typescript, Next.js, Tailwind CSS, Neon (Postgres), Drizzle ORM, Upstash (Redis), serverless functions, and Telegram Bot API.
- 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.