Fadeev Ivan

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SUMMARY

Experienced Backend Developer with proven expertise in high-load systems at Yandex Search and Alice voice assistant. ICPC semifinalist and multiple hackathon winner who excels in designing scalable architectures and optimizing performance-critical systems. Combines strong algorithmic thinking with collaborative problem-solving to deliver impactful solutions in fast-paced environments.

EDUCATION

NUST MISIS   Moscow, Russia
Bachelor of Information systems and technologies   *Sep. 2022 – Present*

Epic Institute of Technology
Real-Time Backend   *Sep. 2023 – May 2024*

EXPERIENCE

Yandex Search   December 2024 – Present
C++, Python, YT, SQL, Microservices, SEO
- Developing and implementing new features for Yandex Search's financial vertical, enhancing search result quality and user experience for financial queries
- Contributing to search engine optimization for financial content, improving the visibility and relevance of financial information in search results

Alice Infrastructure at Yandex   August 2024 – December 2024
C++, Golang, Python, MongoDB, Architecture
- Redesigned and implemented a new architecture for one of Alice's core services, transforming a monolithic system into microservices
- Built and maintained an e2e testing environment for comprehensive voice assistant testing
- Developed and deployed new features for Alice's primary testing service

PROJECTS

Video analysis system | *FastAPI, Kafka, Microservices, YOLO*   April. 2025 – June. 2025
- Designed and implemented a high-load, fault-tolerant video analysis system capable of real-time object detection with minimal latency
- Developed a microservices architecture with ML inference integration, enabling scalable processing of multiple video streams simultaneously
- Engineered parallel execution capabilities that optimized resource utilization and significantly improved throughput of the video processing pipeline

Integrations for TeamFlame | *FastAPI, PostgreSQL, Docker, Telegram Web App*   Oct. 2023 – Nov. 2023
- Developed microservice architecture for convinient scalability of messengers
- A microservices were developed using with FastAPI, which was accessed by messengers
- Implemented a token-based authentication
- This solution brought victory at the hackathon INNOGLOBALHACK 2023

Parking service | *FastAPI, SQLAlchemy, PostgreSQL, Nginx, Docker*   Nov. 2023
- Developed a service for tracking, searching and booking free parking
- Building routes on map via Yandex Geocoder, OpenRoute
- This solution brought victory at the hackathon Urbaton 2023

SKILLS

Hard skills: C/C++, Python, Linux, Bash, Algorithms and Data structures, Architecture, SQL, PostgreSQl, MongoDB, YT, Docker, Nginx, HTTP/HTTPS, RPC/GRPC, REST API, Kafka, RabbitMQ, Git, CMake, CI/CD

Languages: Russian(Native), English(B2)