

Ilya Blinov

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Experience

PriceCube, Middle Software Engineer

Since August 2023

Analytics and ML-based pricing service for marketplaces

- Developed from scratch modules for API data collection and processing, integrated them into the existing system
- Boosted existing data collection system performance by more than 5x with asynchronous processing with threads, Celery, asyncio and data caching
- Implemented product features from the design stage to the production stage
- Drastically accelerated GraphQL data queries with data marts, pagination and caching
- Developed a Kafka architecture for load balancing an arbitrary number of periodic tasks, including reducing peak load during their execution by more than 10x
- Introduced a user story discussion prior to product feature implementation, reducing further development time by an average of 1.5x

Psychological Surveys System, Product Manager & Software Engineer

September 2022 – May 2023

Microservice-based survey collection and processing system

- Led a team of 5 developers working on a microservice, communicated with other teams and the client

MIPT Summer Olympiad School, Lecturer

Summer 2024

- Prepared and delivered lectures and workshops on the computer science sessions devoted to algorithms and data structures

HSE University, Teaching Assistant

September 2022 – June 2025

- Teaching assistant on courses "Python Programming", "C++ Programming Language", "Algorithms and Data Structures"
- Lead of teaching assistants on courses "C++ Programming Language", "Algorithms and Data Structures"

Education

HSE, Faculty of Computer Science, Applied Mathematics and Informatics

2021 – 2025

- **GPA:** 9.6
- **Relevant coursework:** Distributed Systems, Systems Design, Database Infrastructure, Cloud Computing, Theory and Practice of Concurrency, Computer Architecture, Computer Networks, Python, C++
- **Minor:** UX-design

Yandex Lyceum, Fundamentals of Industrial Programming

2018 – 2020

- **One of the top graduates**, certificate number: 2002 21215 ([link for check](#))
- **Relevant coursework:** Web Development, Database Development, Asynchronous Programming, Python

Achievements

Laureate of the Ilya Segalovich Scholarship ([link](#))

2023

(Top 10/3000+ students of the Faculty of Computer Science)

Winner of the Yandex scholarship competition for IT teaching assistants ([link](#))

2024

(countrywide)

Winner of the HSE FCS scholarship "Best teaching assistant" ([link](#))

Second semester, 2024

Research

I.Blinov, Parallel simulation of multi-agent systems behavior modeled

2025

by base Petri nets and workflow nets with non-blocking synchronization (wip)

Projects

Large Prime Numbers, Term paper

2024

- Advanced algorithms for checking numbers for primality in C++ with GMPXX ([link](#))

BMP Image Processor, Educational Project

2022

- C++ console application for BMP image transformations ([link](#))

Technical Skills

Development: Python, SQL, asyncio, gevent, Pandas, NumPy, SQLAlchemy, FastAPI, Django (ORM, REST framework and Graphene), Flask, C++

Technologies: REST, GraphQL, gRPC, RabbitMQ, Kafka, Celery, PostgreSQL, SQLite, Redis

DevOps & Cloud: nginx, Unicorn, Docker, Kubernetes (entry-level), Terraform, CI & CD, Git, bash, Grafana, Prometheus, Airflow

Languages: Russian (native), English (C1)