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
by base Petri nets and workflow nets with non-blocking synchronization** (wip) 2025

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, Gunicorn, Docker, Kubernetes (entry-level), Terraform, CI & CD, Git, bash, Grafana, Prometheus, Airflow

Languages: Russian (native), English (C1)