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## About

AI engeenier with commercial experience of **6 year** working in teams of 5 to 20 people. Integrated platform-based AI solutions into existing and planned information systems. Built the **full development cycle**: from requirements gathering to implementing a system with an automated release pipeline, high test coverage, and using cutting-edge CI/CD and DevOps practices. In addition to core Python/AI expertise, I have great experience working with Kubernetes and microservice architectures. I am interested in the development of the PyTorch ecosystem and continuously update my knowledge in these areas. My hobby is building a personal brand through presentations at professional conferences, publishing scientific papers, and contributing to Open Source.

## Skills

- AI/ML**
- Python, FastAPI, LangChain, LangGraph, LLM, OpenAi, Claude, LLama, RAG, NLP, PyTorch, PGvector, FAISS, Bert, MLops, DevOps, TTS, Hugging Face, asyncio, CatBoost, XGboost, LGBM, Java, Kotlin, mlflow, PostgreSQL
- Big Data**
- Apache Kafka, Hadoop, Spark, Hive, Impala, Airflow
- DevOps**
- Kubernetes, OpenShift, Microservices, Docker, Vagrant, Docker Compose, CI/CD, Ansible, Linux, Prometheus, Grafana, MinIO, Google Cloud Platform
- Architecture**
- DDD, TDD, BDD, Hexagonal Architecture, Microservices

Experience

6 year

VK

Senior AI Software Engineer

- Developed **ML-based partition balancing system** for an in-house stream data processing solution
- Implemented a RAG system for incident analysis and **automatic SRE documentation updates**. This **reduced incident resolution time** and accelerated the onboarding of new SRE engineers

Stack: Python, FastAPI, RAG, Lang Graph, LangChain, Java, Spring Boot, CatBoost, YTsaurus

6 month

Jul 2025 - present

T1 Innotech

Senior Backend Developer

- Integrated a RAG fusion approach into the system, which made it possible to **improve answer quality by 11%** and increase user satisfaction
- Implemented an AI assistant subsystem for replying to emails in an in-house mail client, taking into account message history and the use of users' personalized master prompts
- Built a **multi-agent MCP-based** documentation navigation system across different business domains. It helped simplify the documentation writing process and accelerate onboarding
- Integrated a metrics and tracing collection system into the application, which increased observability, improved failure predictability, and accelerated incident localization

Stack: Python, FastAPI, LangChain, Lang Graph, RAG, NLP, PGvector, MCP, Apache Kafka

1 year

Jul 2024 - Jul 2025

Bell Integrator

Backend Developer

- Added logic to the RAG system to detect queries with insufficient access rights and suggest privilege escalation, which eliminated false 'no data' responses and **improved system transparency**
- Implemented a notification system for detecting personal data in the knowledge base, which increased the security of the original data source
- Developed a semantic caching system. This improvement reduced latency for similar queries and increased user satisfaction

Stack: Python, FastAPI, LangChain, RAG, NLP, PGvector, Apache Kafka

1 year 8 month

Nov 2022 - Jul 2024

Inline Group

Backend Developer

- Developed a service for displaying analytics on employee action results, increasing workflow analysis speed by **30%**
- Developed a **Computer Vision** service to reduce defect analysis time by **20.7%**
- Increased the number of unit tests from **2,058** to **3,891** to reduce support requests

Stack: Python, FastAPI, Java, Spring Boot, OpenCV, Docker, PostgreSQL

1 year 8 month

Mar 2021 - Nov 2022

Stroyservice

Full-stack Developer

- Backend/Frontend development of a corporate logistical system

Stack: Java, Spring Boot, Hibernate, PostgreSQL

9 month

Jun 2020 - Mar 2021

## Education

«Applied Mathematics and Computer Science» - Voronezh State University, Voronezh, Russia  
**Master's degree**  
«Applied Mathematics and Computer Science» - Voronezh State University, Voronezh, Russia  
**Bachelor's degree**

## Certificates

Architecting with Google Kubernetes Engine Specialization

Mar 2024

## Papers

Scopus

Web of Science

IEEEXplore

## Languages

**Russian** Native proficiency

**English** Professional working proficiency