



# VASILY CHERNYKH

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**AI Engineer | Release Engineer | Programmer**

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## PROFESSIONAL SUMMARY

Software Engineer with 4+ years of production experience transitioning to AI/ML Engineering. Building and maintaining high-load systems with 24/7 operation requirements. Hands-on expertise in LLM applications, RAG architectures, ML pipelines. Strong foundation in backend development, CI/CD, and cloud infrastructure (AWS, Docker). Passionate about building AI solutions that deliver measurable business impact.

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## TECHNICAL SKILLS

**AI/ML:** RAG Architectures • LLM Applications • Prompt Engineering • Vector Search • Model Evaluation • A/B Testing • Speech-to-Text • **AI Security & Red Teaming** • Prompt Injection Mitigation

**LLM Tools & Frameworks:** LLM API • DSPy • pandas • pgvector • Qdrant • Elasticsearch • Whisper

**Backend & Infrastructure:** Python • Django • Celery • Redis • PostgreSQL

**DevOps & Cloud:** AWS • Docker • CI/CD (TeamCity) • Monitoring & Logging • Git • GPU instances

**Programming Languages:** Python • Kotlin • Bash/Shell • Go (familiar)

**Languages:** Russian (Native) • English (Fluent) • Serbian (Fluent)

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## PROFESSIONAL EXPERIENCE

### Playrix | Remote, Serbia

**Programmer** | Dec 2020 - Present

- Built and maintained **CI/CD pipelines** for multi-platform deployments using TeamCity
- Developed **internal automation tools and services** using Python, Kotlin, and Shell to streamline application development, testing, and deployment workflows
- Implemented **monitoring and alerting systems** for production services
- Optimized deployment configurations and merge workflows (Internal tools, Mergify), **reducing deployment time by 40%**
- **Technologies:** TeamCity, Docker, AWS, Python, Kotlin, monitoring tools, version control systems

### Airpush | Remote, USA

**Finance Associate & Internal Tools Developer** | Sep 2018 - Nov 2020

- Developed and maintained **internal finance portal** using Django, automating accounting and HR operations
- Built integrations with **3rd-party APIs** for payment processing, banking, and data synchronization
- **Technologies:** Django, Celery, MySQL, PostgreSQL, RESTful APIs, Python

### Tapcore | Remote, Netherlands

**Financial Manager & Automation Developer** | Jun 2015 - Aug 2018

- Built **internal automation tools** for payroll calculations and HR system

integration using Python

- Developed web scraping solutions and API integrations with banking systems
- **Technologies:** Python, pandas, web scraping

## Keissmedia | Kaliningrad, Russia

**Project Manager** | Nov 2013 - May 2015

- Led cross-functional teams of 10+ engineers to deliver software projects on time and within budget
  - Managed outsourced development projects and coordinated stakeholder communication
  - Monitored project quality and implemented feedback loops for continuous improvement
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## AI/ML PROJECTS

### Conference Speaker Finder with AI

*DSPy • pgvector • OCR • Django • Celery • PostgreSQL*

- Built **end-to-end AI pipeline** for matching conference speakers to topics using semantic search and multi-criteria ranking
- Designed **prompt optimization workflow** using DSPy, improving matching accuracy by 40% over baseline prompts
- Created **evaluation framework** with precision@k and NDCG metrics; conducted A/B tests comparing retrieval strategies

### JezikJet - Podcast Transcription & Language Learning

*Whisper • pyannote • NLP • Django • Celery*

- Built **speech-to-text pipeline** using Whisper for Serbian podcast transcription

with speaker diarization

- Implemented **NLP-based phrase extraction** for language learning, creating interactive listening/reading experiences
- Developed async processing system with Celery and Redis for handling large audio files
- **Technologies:** pyannote-whisper, Django, Celery, Redis, PostgreSQL

## Vigen - Video Generator

*OpenAI API • Generative AI • Django • S3*

- Built **automated video generation platform** creating motivational content with famous quotes
- Integrated **ChatGPT for translation** and content adaptation to Serbian language
- Designed async pipeline using Celery, Redis, and S3 for video rendering and storage
- Created **Telegram bot** for content distribution and user interaction
- **Technologies:** moviepy, Pexels API, Django, Celery, S3

## Geronimo - Web3 ETH Data Analysis

*Python • pandas • PostgreSQL*

- Built **data scraping and analysis pipeline** for Ethereum blockchain data
- Implemented **middleware for API key rotation** to optimize data collection and avoid rate limits
- Developed data analysis workflows for generating insights on blockchain transactions
- **Technologies:** Python, Django, pandas, PostgreSQL, Celery, Redis

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## WRITING & THOUGHT LEADERSHIP

# "Сказать нельзя отказать" — AI & Prompt Engineering Guide

Technical book on LLM fundamentals, advanced prompt engineering, and AI security.

Covers: tokenization, transformers, attack vectors, guardrails.

Status: Russian version in progress; English & Serbian translations planned.

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## EDUCATION & CERTIFICATIONS

**AI Red Teaming & Security** | HackTheBox | 2025 (Ongoing)

*Specialized training in AI security and adversarial testing*

- Prompt Injection Attacks - Advanced techniques for identifying and mitigating LLM vulnerabilities
- Introduction to Red Teaming AI - Security assessment methodologies for AI systems
- Applications of AI in InfoSec - Practical applications of AI in cybersecurity
- Fundamentals of AI - Core concepts and security implications

**LLM Zoomcamp** | DataTalks.Club | Summer 2025

*Completed 10-week intensive program covering RAG, vector search, LLM evaluation, monitoring, and production deployment*

- Built production-ready LLM applications with RAG architectures
- Implemented vector databases (Qdrant, pgvector) for semantic search
- Developed LLM evaluation frameworks and monitoring systems
- Hands-on experience with deployment strategies and best practices

**Python Backend Development** | Yandex.Practicum | 2021 - 2022

*Comprehensive backend development course covering Django, PostgreSQL, REST APIs, testing*

**Engineer Degree** | Baltic Fishing Fleet State Academy, Russia | 2003 - 2008

*Deputy Headman • Engineering fundamentals*

**Extended Computer Science Class** | Gymnasium 32, Kaliningrad, Russia | 1993 - 2003

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## ADDITIONAL EXPERIENCE

### **Head of Regional Cycling Club** | Westland Randonneur | Nov 2017 - Dec 2021

- Led club to achieve **#1 ranking in Russia** by 2021
  - Grew membership by **86% over 4 years** through community building and event organization
  - Organized **international cycling marathon** (Kaliningrad to Saint Petersburg, 80+ participants)
  - Project management, team leadership, and community engagement
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## INTERESTS

Cycling • Innovation & AI • 3D Printing • DIY Projects