VASILIY CHERNYKH

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.

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)

PROFESSIONAL EXPERIENCE

Playrix | Remote, Serbia

Programmer | Dec 2020 – December 2025

- 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.

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

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

INTERESTS

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