

# Arkadiy Pechnikov

## Python Engineer | ML Infrastructure & Data Pipelines

Remote / Open to Relocation | arkptz@gmail.com | github.com/Arkptz | linkedin.com/in/arkptz | t.me/arkptz

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### PROFESSIONAL SUMMARY

Python Engineer with 8+ years of backend and data infrastructure experience, specializing in ML pipelines and large-scale data processing. Built data collection system aggregating 260M+ candlesticks across crypto and forex markets for ML model training. Hands-on with PyTorch and TensorFlow for LSTM/CNN models applied to quantitative trading. Strong production engineering foundation: Kubernetes deployments, CI/CD pipelines, monitoring stacks, and workflow orchestration. Completing Stanford ML Specialization and NYIF ML in Trading courses.

### TECHNICAL SKILLS

**Languages:** Python (8 years), Rust (2 years), Go, JavaScript/TypeScript, SQL

**ML & Data:** PyTorch, TensorFlow, scikit-learn, pandas, numpy, Feature Engineering, LSTM/CNN

**Backend & Frameworks:** FastAPI, Django, aiohttp, asyncio, Celery, Temporal.io, Pydantic, SQLAlchemy

**Databases:** PostgreSQL, MySQL, MongoDB, ClickHouse, Redis, TimescaleDB, Elasticsearch

**Observability:** Grafana, Victoria Metrics, Loki, Sentry, Prometheus

**Cloud & DevOps:** Kubernetes, Docker, FluxCD, GitHub Actions, CI/CD, Helm, Cloudflare, MinIO

### PROFESSIONAL EXPERIENCE

#### Head of IT Infrastructure

Fenixwb — Wildberries slot booking service | Oct 2024 — Sep 2025 | Remote

- Designed ~10 microservices processing 200 tasks/sec with real-time data pipeline for market data streams
  - Built real-time data parser with 0.1s refresh rate aggregating market data for 10,000 concurrent users
  - Deployed Grafana + Victoria Metrics + Loki monitoring stack with custom metrics and alerting
  - Engineered Rust-based computation module achieving 20x performance improvement over browser baseline
- Tech:** Rust, Python, Temporal.io, Elasticsearch, MySQL, Grafana, Victoria Metrics, Loki, Docker, K8s

#### CTO / Senior Python Developer

Cryptosoftware — Crypto trading infrastructure platform | May 2023 — Nov 2024 | Remote (Dubai-based)

- Architected SDK generation pipeline automating API discovery and client generation from network traffic
  - Built data ingestion layer processing real-time data from 20+ DeFi protocols across multiple blockchains
  - Designed async Python library for concurrent multi-chain operations with retry logic and error handling
- Tech:** Python, Web3.py, mitmproxy, OpenAPI, DeFi, asyncio, Docker

#### Middle+ Python Developer / Tech Lead

Vitrinagram — Telegram MiniApp e-commerce platform | Nov 2022 — Aug 2024 | Remote (Moscow-based)

- Built backend infrastructure benchmarked for 1,000+ concurrent users with Celery + Kubernetes
  - Configured observability stack (Grafana + Victoria Metrics + Loki + Sentry) with custom metrics
  - Implemented GitOps deployment pipeline: FluxCD + GitHub Actions + Cloudflare
- Tech:** FastAPI, Kubernetes, Celery, FluxCD, Grafana, Victoria Metrics, Loki, Sentry, MinIO, Cloudflare

#### Python Backend Developer / Lead

Freelance — Crypto infrastructure projects | Jan 2018 — Present

- Built data pipeline collecting 260M+ candlesticks (crypto + 20 years forex) with automated quality checks
  - Developed feature engineering pipeline: raw OHLCV → technical indicators → normalized ML training datasets
  - Created backtesting infrastructure using nautilus-trader framework for strategy validation
  - Engineered wallet system processing 5,000+ daily transactions with real-time monitoring and alerting
- Tech:** Python, Go, JS/TS, Web3.py, ethers.js, nautilus-trader, PostgreSQL, Redis, asyncio

### PROFESSIONAL DEVELOPMENT

**Machine Learning Specialization** — Stanford University (via Coursera) (2026)

**Reinforcement Learning for Trading Strategies** — New York Institute of Finance (2026)

**Using Machine Learning in Trading and Finance** — New York Institute of Finance (2026)

### LANGUAGES

Russian: Native | English: B1+ (strong reading/writing, conversational spoken)