Arkadiy Pechnikov

Python Developer | ML Infrastructure & Data Engineering

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SUMMARY

Python Developer with 8 years of experience, transitioning into ML infrastructure and data engineering. Strong background in building high-load distributed systems, data pipelines, and observability stacks. Currently completing Stanford ML Specialization and building trading models on self-collected datasets (260M+ data points). Experienced with production monitoring (Grafana, Victoria Metrics, Loki, Sentry), workflow orchestration (Temporal.io), and Kubernetes deployments.

SKILLS

Languages: Python (8 years), Rust (2 years), Go, JavaScript/TypeScript, SQL
ML/Data: TensorFlow, scikit-learn, pandas, numpy, data pipelines, feature engineering
Backend: FastAPI, aiohttp, asyncio, Celery, Temporal.io, Pydantic, SQLAlchemy
Monitoring: Grafana, Victoria Metrics, Loki, Sentry, Elasticsearch
Infrastructure: Kubernetes, Docker, FluxCD, GitHub Actions, CI/CD
Databases: PostgreSQL, MySQL, MongoDB, ClickHouse, Redis, TimescaleDB

EXPERIENCE

Head of IT Infrastructure
Fenixwb | Oct 2024 — Sep 2025 | Remote

- Migrated legacy system to modern workflow orchestration with Temporal.io
- Designed ~10 microservices architecture integrated with Elasticsearch and MySQL
- Engineered Rust-based POW solver achieving 0.1s vs 2s browser baseline (20x improvement)
- Scaled system to 200 tasks/sec serving 10,000 users with 99% uptime
- Built real-time data parser with 0.1s refresh rate for market data streams
- Set up monitoring stack with Grafana + Victoria Metrics + Loki

Tech: Rust, Python, Temporal.io, Elasticsearch, MySQL, Grafana, Victoria Metrics, Loki, Docker, K8s

CTO / Senior Python Developer
Cryptosofters | May 2023 — Nov 2024 | Remote (Dubai-based)

- Led team of 6 engineers (3 frontend, 2 backend, 1 Solidity)
- Architected core library for DeFi integrations; delivered 20+ protocol interfaces
- Built SDK generator pipeline: mitmproxy logs → OpenAPI spec → auto-generated SDK
- Designed and implemented entire SDK generation workflow personally

Tech: Python, Web3.py, mitmproxy, OpenAPI, DeFi, asyncio

Middle+ Python Developer / Tech Lead
Vitrinagram | Nov 2022 — Aug 2024 | Remote (Moscow-based)

- Built Telegram MiniApp backends supporting 1,000+ concurrent users per store
- Designed horizontally scalable bot architecture with Celery + Kubernetes
- Implemented automated subdomain provisioning: FluxCD + GitHub Actions + Cloudflare
- Developed S3-compatible proxy API using MinIO
- Configured full observability stack: Grafana + Victoria Metrics + Loki + Sentry

Tech: FastAPI, Kubernetes, Celery, FluxCD, Grafana, Victoria Metrics, Loki, Sentry, MinIO

Python Backend Developer / Lead
Freelance | Jan 2018 — Present

- Built wallet management system handling 2,000+ EVM wallets, 5,000+ transactions/day
- Developed copy-trading system with infinitely scalable architecture

- Created TradingView parser extracting 260M+ candlesticks for ML training
- Led team of 3 Go developers building CEX arbitrage bot
- Built USDT-TON payment gateway for crypto casino
- Developed trading bots using nautilus-trader framework

Tech: Python, Go, JS/TS, Web3.py, ethers.js, nautilus-trader, NixOS, asyncio

EDUCATION & CERTIFICATIONS

Machine Learning Specialization — Stanford / Coursera (Completed 2026)
Reinforcement Learning for Trading Strategies — New York Institute of Finance (Completed 2026)
Using Machine Learning in Trading and Finance — New York Institute of Finance (Completed 2026)

LANGUAGES

Russian — Native | English — B1+ (reading/writing fluent, spoken improving with practice)