Arkadiy Pechnikov

Senior Python Backend Engineer | Distributed Systems & FinTech Infrastructure

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

PROFESSIONAL SUMMARY

Senior Python Backend Engineer with 8+ years of production experience building high-load distributed systems for fintech and crypto infrastructure. Architected microservices ecosystem processing 200 background jobs/sec serving 10,000 users at 99% uptime. Built SDK generation pipeline automating integration with 20+ DeFi protocols. Experienced in workflow orchestration (Temporal.io), container orchestration (Kubernetes, Docker), and full observability stacks (Grafana, Victoria Metrics, Loki). Engineered Rust-based POW solver achieving 20x performance improvement over browser baseline.

TECHNICAL SKILLS

Languages: Python (8 years), Rust (2 years), Go, JavaScript/TypeScript, SQL
Backend & Frameworks: FastAPI, Django, aiohttp, asyncio, Celery, Temporal.io, Pydantic, SQLAlchemy
Databases: PostgreSQL, MySQL, MongoDB, ClickHouse, Redis, TimescaleDB, Elasticsearch
Cloud & DevOps: Kubernetes, Docker, FluxCD, GitHub Actions, CI/CD, Helm, Cloudflare, MinIO
Observability: Grafana, Victoria Metrics, Loki, Sentry, Prometheus
Blockchain & DeFi: Web3.py, ethers.js, 20+ DeFi protocols (Uniswap, 1Inch, Stargate, LayerZero), TON SDK

PROFESSIONAL EXPERIENCE

Head of IT Infrastructure

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

- Migrated legacy monolith to Temporal.io workflow orchestration, designing ~10 microservices integrated with Elasticsearch and MySQL
- Scaled system to 200 background jobs/sec serving 10,000 users with 99% uptime
- Engineered Rust-based POW solver achieving 0.1s execution vs 2s browser baseline (20x improvement)
- Recruited and managed 2 engineers (backend + DevOps), owned architecture decisions and task allocation
- Diagnosed critical throughput bottleneck — proved hypothesis through systematic load testing and resolved the issue
- Deployed full observability stack: Grafana + Victoria Metrics + Loki with custom dashboards and alerting

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

CTO / Senior Python Developer

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

- Architected SDK generation pipeline: mitmproxy traffic capture → OpenAPI spec → auto-generated Python SDK for undocumented exchange APIs
- Delivered 20+ DeFi protocol integrations (Uniswap, 1Inch, Stargate, LayerZero) as reusable library
- Built core async Python library for DeFi interactions handling concurrent operations across multiple chains
- Implemented code review process, CI/CD pipelines, and structured task management for team of 6

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 Telegram MiniApp backends benchmarked for 1,000+ concurrent users per store with horizontal scaling
- Designed scalable bot architecture with Celery task queue + Kubernetes orchestration
- Implemented automated subdomain provisioning pipeline: FluxCD + GitHub Actions + Cloudflare API
- Developed S3-compatible proxy API using MinIO for tenant-isolated file storage
- Configured full observability: Grafana + Victoria Metrics + Loki + Sentry with per-tenant dashboards

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

Python Backend Developer / Lead

Freelance — Crypto infrastructure projects | Jan 2018 — Present

- Built wallet management system handling 2,000+ EVM wallets with 5,000+ daily transactions, zero manual intervention
- Created TradingView parser extracting 260M+ candlesticks (crypto + 20 years forex) for ML datasets
- Led team of 3 Go developers building CEX arbitrage bot with sub-100ms execution latency
- Developed copy-trading system with horizontally scalable architecture supporting unlimited subscriber wallets
- Built USDT-TON payment gateway with instant confirmation for crypto gaming platform

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)