Petr Kokorin

Bangkok, Thailand | kokorin.petr27@gmail.com | linkedin.com/in/kokorinpetr | github.com/KokorinPetr

Summary

Backend-focused Engineer with more than 3 years of experience in Python (Django, FastAPI) and system architecture. Specializing in designing high-performance RESTful and WebSocket APIs, optimizing database schemas, and implementing containerized workflows. Strong interest in AI/ML systems with a foundation in LLM applications and high-concurrency Rust development.

Skills

Languages: Python, Rust, JavaScript (ES6+), SQL

Backend: Django, FastAPI, Asyncio, Celery, WebSockets, Pytest, Axum (Rust)

Infrastructure: Docker, Docker Compose, Kubernetes, AWS, CI/CD (GitHub Actions), Nginx, Redis

Data & ML: PostgreSQL, Pandas, Scikit-learn, PyTorch, vLLM, LLM Integration (OpenAI/Anthropic/Gemini)

Experience

Founding Engineer (Backend Focus), Hochuvleto (Travel Platform) – Remote Jan 2024 – Dec 2025

- Architected the backend infrastructure and launched a travel booking MVP from scratch, managing the full software development life cycle.
- Designed a scalable PostgreSQL schema and Django backend, implementing custom search algorithms and complex booking business logic.
- Optimized database performance through strategic indexing and query optimization, reducing API response times by ∼30%.
- Containerized the application stack using Docker, ensuring environment consistency across development and production.
- Established a robust testing suite including Unit and Integration tests to ensure high system reliability and facilitate rapid iteration.
- Collaborated on architectural decisions to prepare the monolithic service for future scaling and feature expansion.

Backend Developer, Freelance – Remote Jan 2022 – Dec 2023

- **Enterprise Incident Management System:** Engineered a digitized workflow for safety investigations, replacing manual paper-based processes.
- Implemented a robust Finite State Machine (FSM) architecture in Python to manage complex incident lifecycles with 100% state transition integrity.
- Designed a granular RBAC (Role-Based Access Control) system, securing sensitive data for multiple user personas.
- Developed an automated notification engine using asynchronous tasks that decreased incident response time through real-time alerts.
- Built data processing modules for root cause analysis (RCA), enabling stakeholders to visualize trends and generate compliance reports.

Projects

Cryptocurrency Arbitrage Engine 2024 – present

- Developing a low-latency trading engine in Rust to process real-time market data with high-concurrency.
- Utilized Tokio and asynchronous streams to handle WebSocket data feeds from decentralized exchanges.
- Integrated Redis for sub-millisecond state management and market data caching.

Education

Harvard University (edX), Certificate in CS50's Introduction to Artificial Intelligence with Python — 2024 – 2024

Yandex Practicum, Professional Certificate in Python Web Development Bootcamp — 2022 – 2023