Nikita Iudenkov

Python Backend Engineer

Python backend engineer with 7+ years of experience building production systems designed for scale - from crypto trading platforms to social networks. Migrated 90k users and 2TB of content between platforms, built a real-time chat system as a pair of microservices on AWS, and created PySentry - an open-source Python security scanner in Rust with 185k+ downloads. Keeps up with new tech - recently graph databases and local RAG systems.

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Experience

Freelance & Open Source Developer   2/2025 - Present
Independent Development

- Following the closure of my former employer, transitioned to independent development - **open-source** work and client projects
- Built **PySentry** - details in Projects section
- Delivered **backend** development and automation solutions for several clients under NDA
- Technology stack: **Python**, **Rust**, **FastAPI**, **PostgreSQL**, **Streamlit**, **Tauri**, **Vue.js**, **pandas**, **Docker**

Senior Python Backend Engineer   3/2024 - 2/2025
Yolllo

- Backend development **from scratch** for a social media platform focused on visual content sharing
- **Led implementation of core features**: user profiles, content feeds, interactions, analytics
- Built a **media processing pipeline** - automated video conversion to .mp4, compression, standardization to 1920×1080, **optimizing storage and delivery**
- **Migrated ~90,000 users and 2TB of content** from a legacy system. Restructured broken database schemas and ran extensive data validation to ensure compatibility with the new architecture
- Integrated **Keycloak** for unified auth across multiple company services
- Technology stack: **Python**, **Docker**, **Jenkins**, **Keycloak**, **AWS S3**, **FastAPI**, **PostgreSQL**, **Redis**, **RabbitMQ**

Senior Python Backend Engineer   9/2022 - 12/2023
Evvve

- Built the backend **from scratch** for a professional events platform with social networking and live streaming features
- **Contributed to product decisions** and **advised business and UI/UX designers on privacy/GDPR compliance**
- Implemented a **real-time chat system** as two **microservices** (**API** + **WebSocket**) on **AWS Lambda** and **DynamoDB**
- Technology stack: **Python**, **FastAPI**, **Tortoise-ORM**, **Redis**, **Celery**, **PostgreSQL**, **Socket.IO**, **AWS** (**DynamoDB**, **SQS**, **Lambdas**, **IVS**, **MediaLive**, **S3**, **Serverless Framework**)

Python Backend Engineer   8/2021 - 9/2022
Skipp

- Backend development for an HR platform for building remote teams. **Led the transition from monolith to microservice architecture**
- Designed and implemented a **notification service**. Integrated multiple **third-party APIs**
- **Led migration from Django to FastAPI** through incremental refactoring
- Technology stack: **Python**, **FastAPI**, **PostgreSQL**, **RabbitMQ**, **Celery**, **Redis**, **Docker**

Python Backend Engineer   12/2019 - 8/2021
SwapZilla

- Backend development for a **cryptocurrency trading platform** providing access to multiple exchanges and trading tools
- **Optimized** the balance deposit/withdrawal **service** that listened to blockchain transaction blocks. Developed **Ethereum** support
- Built a service **pulling real-time data** from exchanges via **REST API** and **WebSockets**
- Technology stack: **Python**, **aiohttp**, **Django**, **PostgreSQL**, **Redis**, **RabbitMQ**, **AWS** (**S3**, **Cognito**, **Lambdas**)

Junior Full Stack Developer   2/2019 - 12/2019
Neurodens Store

- Development of a backend for an online store in **Python**, **Django** and **PostgreSQL**. The **Saleor** open-source e-commerce engine was used as the basis and was modified extensively. Developed a frontend with **AJAX**, **SCSS** and **Codyhouse UI** framework

Projects

PySentry [Open-Source Developer] ‹/› ↗   5/2025 - Present
Python dependency vulnerability scanner written in Rust. Compares installed packages against the several databases, 15-30x faster than pip-audit.
185,000+ downloads, 180+ GitHub stars.
Adopted by Firebase Genkit SDK (Google, 5.3k+ stars) for production use. Featured on PythonBytes podcast.

TutSovet [Project Manager / Team Lead / Backend Developer]   9/2019 - 11/2020
Managed a development team (1 backend, 1 frontend, 1 AI developer) working on a startup - event announcements and a matching app for finding people to attend events with.
Stack: Python, Django, RabbitMQ, PostgreSQL, Rust (actix-web, diesel-orm), React.js.
Project shut down due to COVID-19 restrictions.

Space Station 13 [Open-Source Game Developer]

Contributed to /tg/station (1.3k+ stars, 4k+ forks, 1k+ monthly commits). Maintained several Russian-speaking community forks with 25+ unique monthly contributors. Made decisions on gameplay mechanics, developed anti-multi-account protection, optimized existing solutions, hosted own forks. Technologies: BYOND DreamMaker, C, SQL (MariaDB), JavaScript, Python, Rust.

Skills

Python • FastAPI • aiohttp • Django • SQL • PostgreSQL • Redis • RabbitMQ • Rust • AWS • Docker

Languages

Russian - Native • English - B2 • Serbian - A1

Interests

Drums • Psychology • Philosophy • Drones • Videography • Photography • Pool Billiard • Backgammon