

Roman Matveev

Backend Engineer (Python, integrations, applied AI)

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Backend engineer with a Python core. I build services for unstable APIs, incomplete docs, and messy edge cases. Previously at Bright Data.

FOCUS

- Service backend: FastAPI, SQL/PostgreSQL, API contracts
- Integrations: REST, webhooks, reverse engineering on external platforms
- Applied AI: LLM APIs, RAG, MCP/tool calling for real workflows

CORE SKILLS

Python, FastAPI, SQL, PostgreSQL, Docker / Docker Compose, REST APIs / Webhooks, LLM APIs, RAG, MCP, Reverse engineering

EXPERIENCE

Backend / Integration Engineer · Freelance

Feb 2024 — Present

Build backend, integration, and automation systems for real operating workflows across external APIs, process automation, and AI-assisted features.

- Turn ambiguous requirements into maintainable services with explicit API contracts and support boundaries.
- Design integrations for unreliable external systems with robust error handling, retries, logging, and observability.
- Use reusable modules and integration patterns to shorten delivery time across new workflows.

Independent R&D Engineer · Independent projects / R&D

Mar 2023 — Jan 2024

Built focused backend and AI R&D between contracts, validating architecture patterns before using them in production-facing work.

- Validated RAG and tool-calling patterns on working prototypes before client use.
- Shifted from one-off scripts to reusable service components with clear interfaces.
- Built a practical base that later fed applied AI and AI tooling projects.

R&D Data Collection Engineer · Bright Data

May 2021 — Feb 2023

Built and maintained data-collection tooling in a changing web environment: HTTP/JavaScript analysis, resilient request flows, and fast adaptation.

- Analyzed unstable request chains and turned them into more resilient extraction logic.
- Maintained extraction quality as anti-bot controls and page structure shifted.
- Worked at the intersection of reverse engineering, reliability, and delivery speed.

Python Developer · Freelance

Sep 2019 — May 2021

Built Python tools, parsers, and automation for internal workflows with messy inputs and changing requirements.

- Automated repetitive operations and reduced manual effort in data-heavy processes.
- Built service utilities and parsers for unstable integrations.
- Shipped practical Python tools quickly and stabilized them for ongoing use.

SELECTED PROJECTS

nnzen model catalog · 2025-2026

A live catalog with 500+ model cards that makes model research less scattered.

- Designed the ingestion pipeline for collection, normalization, and catalog updates.
- Built a unified comparison surface across model metadata and ranking context.
- Kept the backend extensible for new sources, filters, and comparison layers.

Custom Agent Core with MCP · 2025

LLM core with a plugin execution layer for a developer assistant: hot reload, tool chains, and explicit context handoff.

- Implemented plugin hot reload without restarting the core process.
- Built explicit context handoff between chained tools.
- Separated core runtime responsibilities from plugin responsibilities to keep the platform maintainable.

Trading Automation for an In-Game Marketplace · 2024

Automation for a constrained external marketplace with strategy logic, execution control, and logging.

- Designed API interaction, execution control, and logging as one operational loop.
- Adapted automation behavior to real platform constraints instead of ideal assumptions.
- Kept the system supportable under frequent external changes.

Resilient Data Collection Tooling · 2021-2023

Data extraction tooling for a changing web environment with persistent anti-bot friction.

- Reworked unstable request flows into repeatable extraction logic.
- Improved resilience to anti-bot changes and page-structure drift.
- Balanced delivery speed with reliability under constant external change.