

DENIS SINEIKO

Senior Python Backend & Automation Engineer | AI & LLM Integrations

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PROFESSIONAL SUMMARY

Senior Python backend and automation engineer with 9+ years across software automation, integrations and data engineering, including 6+ years owning a production platform in financial services. Built backend APIs and workflows across 30+ lender platforms, supporting thousands of weekly executions. Hands-on experience in Flask / FastAPI, API and browser integrations, concurrent processing, testing and production reliability, with technical ownership from architecture through release. Additional hands-on experience integrating LLMs and AI-assisted workflows.

TECHNICAL SKILLS

Python & Backend: Python 3, Flask / FastAPI, REST APIs, API integrations, requests, asyncio, async/await, HTTPX, concurrent processing, OOP, SOLID, type hints; Django

Automation & Integration: Selenium, browser automation, external APIs, webhooks/callbacks, workflow orchestration, data validation, exception handling, file/PDF processing

Data: MongoDB, PostgreSQL, BigQuery, SQL, Pandas, JSON, XML, CSV, Excel

Reliability & Testing: pytest, unittest, API testing, Selenium E2E, Sentry, structured logging, health checks, production diagnostics, API-driven regression testing

Delivery: Docker, GitLab CI/CD, Git, Pylint, AWS/ECS environments, deployment and release support

AI Integration: OpenAI, Anthropic and Gemini APIs, n8n, AI agents and tool calling, document extraction, speech-to-text workflows, structured output validation, cross-model verification, deterministic fallbacks

PROFESSIONAL EXPERIENCE

Senior Python Automation Engineer | Loan.co.uk

March 2020 - Present | Poole, United Kingdom

- Designed and built a production Python backend and automation platform from proof of concept, establishing reusable architecture across 30+ external lender platforms.
- Designed, built and maintained production REST APIs using Flask and FastAPI for workflow automation, external integrations, callbacks, file operations, validation and error handling.
- Own technical delivery across backend architecture, automation development, releases, dependency maintenance and production support, including performance and reliability improvements.
- Support thousands of weekly workflow executions, submissions and data extraction operations, processing multiple cases concurrently to reduce adviser wait time and manual workload.
- Built production observability with Sentry, structured logging, health checks and workflow-level diagnostics to investigate API failures, timeouts and application/container incidents.
- Designed an API-driven regression and validation framework covering approximately 50 to 60 end-to-end scenarios, using API checks, pytest, Selenium validation, screenshot evidence and failure diagnostics.
- Developed workflows for data retrieval, validation, submissions, document processing and portal uploads, replacing manual tasks taking approximately 15 minutes to 2 hours per case.
- Integrated AI/LLM services for document and data extraction, applying structured output validation, inconsistency analysis, cross-model verification and deterministic fallback logic.
- Established coding standards and reusable integration patterns; provide code reviews, technical guidance and solution design support within a small product team.
- Maintain project-specific Docker images and GitLab CI/CD workflows with Pylint checks; collaborate with DevOps on AWS/ECS deployments and environment-level issues.

PROFESSIONAL EXPERIENCE

ETL Developer | LUSH Digital

June 2018 - March 2020 | Poole, United Kingdom

- Built a reusable Python ETL and data collection framework from scratch across 16+ sources, including APIs, databases, files and business data feeds.
- Cleaned and transformed business and global sales data for BigQuery, developing transformation logic, views and reporting datasets used across the organisation.
- Automated reconciliation between banking and retail datasets, achieving approximately 96% automatic matching and reducing manual work to exception handling.
- Created and supported 20+ Looker and Data Studio dashboards, translating operational data into metrics for teams and individual stakeholders.

Data Analyst | FT Solutions Ltd

September 2016 - October 2017 | Southampton, United Kingdom

- Automated daily data cleaning, transformation, template mapping and Excel report generation, reducing routine processing time by approximately 50%.
- Optimised queries and processing logic across large datasets while maintaining data accuracy from raw input through final production output.

INDEPENDENT PYTHON & AI PROJECTS

Personal & Community Projects | 2024 - Present

- Built Python prototypes and project workflows using asyncio, async/await and HTTPX for concurrent API and integration workloads.
- Developed practical LLM-enabled workflows using OpenAI, Anthropic and Gemini APIs, including document extraction, speech-to-text processing and AI-assisted automation.
- Built n8n workflows and lightweight AI agents with tool calling for chatbot requests, information extraction and response suggestions, using structured outputs and validation around model responses.

SELECTED PROJECT

Spotenda | Community Booking Platform

In development | spotenda.com

- Designing and developing a community-focused booking platform using Python, Django and PostgreSQL to help small businesses promote their services and manage customer bookings without high platform costs.
- Building the application architecture and workflows for business onboarding, service management, availability and bookings, with AI-assisted features where useful.

COMMUNITY SUPPORT

Informal Community Support | 2012 - Present

- Occasionally volunteer my time to help people in my community with technology and practical everyday tasks, particularly where professional help or replacement equipment may be difficult to afford.

EDUCATION

BSc (Hons) Computing, Software Engineering | Bournemouth University 2012 - 2016

LANGUAGES

English: Fluent | Russian: Native or bilingual | Ukrainian: Native or bilingual