DENIS UDOT

Senior Python Backend Engineer | Technical Lead

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Professional Summary

Senior Python Backend Engineer and hands-on Technical Lead with 10+ years of experience in backend and product development. I design and deliver B2B SaaS platforms, payment and billing systems, KYB and document-processing workflows, third-party integrations, Telegram automation, and AI-enabled products.

My core stack is Python, FastAPI, and asynchronous PostgreSQL. I take ownership from product discovery and technical specification through architecture, implementation, code review, release, and production support. I have led cross-functional teams of up to eight people and worked daily in international English-speaking environments.

Core Expertise

Backend: Python, FastAPI, asyncio, REST APIs, gRPC, Protocol Buffers, webhooks, Pydantic, SQLAlchemy, asyncpg, Alembic, PHP, Laravel

Data and messaging: PostgreSQL, ClickHouse, MongoDB, RabbitMQ, background workers

Architecture: Modular monoliths, microservices, multi-tenant SaaS, RBAC, service and repository patterns

Reliability and testing: Idempotency, database transactions, outbox pattern, audit logging, retryable jobs, pytest, integration testing

Cloud and delivery: Docker Compose, Linux, Nginx, Google Cloud Platform, Google Cloud Storage, CI/CD fundamentals

AI and automation: n8n, OpenAI API, DeepSeek, Anthropic API, Gemini API, LangGraph, LangChain, prompt engineering, structured outputs, tool calling, RAG, vector databases, LLM evaluation and tracing

AI-assisted engineering: Cursor, codebase analysis, implementation planning, task decomposition, test design, controlled refactoring, and technical documentation

Leadership: System design, technical discovery, requirements analysis, task decomposition, code review, hiring, mentoring, performance reviews, and roadmap planning

Professional Experience

Backend Engineer — ConTrust

Contract · January 2026 – Present

Construction technology SaaS products for company onboarding, scoring, supply-chain trust, payments, licensing, and operational analytics in the Saudi market.

- Own a major share of backend design and implementation in a team of three backend engineers, one frontend engineer, and one project manager; turn product ideas into technical specifications, architecture, delivery plans, and production-ready functionality.
- Built and evolved a modular FastAPI monolith with five core domain modules, approximately 35–40 application services, and around 190 API endpoints.
- Designed the monetization core around a credit wallet with idempotent deductions and refunds, transactional consistency, complete operation history, and auditable financial records.
- Implemented approximately 15–20 payment and billing scenarios, including PayTabs top-ups, payment links, third-party payments, saved cards, promo and administrative credits, scoring and subscription charges, refunds, and Odoo invoice reconciliation.
- Built webhook processing resilient to duplicate events and race conditions, including a flow that automatically starts a scoring request after successful third-party payment.
- Created an end-to-end KYB and document-processing pipeline covering validation, malware scanning, encrypted cloud storage, OCR events, status synchronization, admin review, notifications, and audit logging.
- Implemented multi-company scoring workflows with approvals, denials, cancellations, charging, refunds, time-limited result access, and Themis screening.
- Developed supply-chain workflows for projects, RFP documents, contractor and subcontractor invitations, approvals, credit-based subscriptions, renewals, and automatic expiration handling.
- Built 11 background jobs and delivered eight live integrations, including PayTabs, Odoo, Themis, OCR services, Resend, Google Cloud Storage, and malware scanning; also prepared interfaces for MOC, ZATCA, Wathq, and GOSI APIs.
- Conduct code reviews, decompose large initiatives, and contribute to shared architectural decisions across the backend team.

Technology: Python, FastAPI, PostgreSQL, SQLAlchemy, asyncpg, Alembic, Pydantic, RabbitMQ, Docker Compose, Google Cloud Storage, pytest

Lead Developer and Prompt Engineer — AI Communication Coach

Client project, part-time contract · October 2025 – Present

Telegram-based AI product that provides context-aware communication support through multi-stage LLM workflows.

- Own the product’s technical implementation as the sole developer and prompt engineer, including architecture, backend development, Telegram UX, LLM orchestration, releases, and production support.
- Released the product in June 2026 and validated its workflows through hundreds of dialogues with

focus-group participants.

- Completed the migration from a validated n8n prototype to a maintainable Python, FastAPI, aiogram, PostgreSQL, and LangGraph architecture.
- Replaced duplicated low-code workflows with typed services, repositories, explicit state transitions, callback routing, and testable dialogue lifecycle management.
- Designed a multi-stage LLM pipeline with conversation memory, summarization, style correction, media processing, structured outputs, tool calling, RAG, and vector retrieval.
- Integrated DeepSeek, OpenAI, Anthropic, and Gemini models for different product and processing scenarios.
- Implemented Telegram flows for onboarding, profile collection, dialogue creation, source tracking, active and archived conversations, reply regeneration, feedback, and media exchange.
- Added token and cost accounting, pipeline traces, prompt evaluation, and admin diagnostics. Used Cursor as part of a structured engineering workflow for codebase analysis, implementation planning, controlled refactoring, test preparation, and documentation.

Technology: Python, FastAPI, aiogram, PostgreSQL, n8n, LangGraph, LangChain, OpenAI, DeepSeek, Anthropic, Gemini, RAG, vector databases, Cursor

Technical Lead and Lead Developer — Platinum

2020 – December 2025

Crypto analytics, Telegram lead-generation systems, CRM automation, and AI-assisted business workflows.

- Led a cross-functional team of eight direct reports, including backend and frontend engineers, a database administrator, and a designer.
- Owned system architecture, backend delivery, code quality, roadmap planning, hiring, mentoring, and performance reviews while remaining actively involved in development.
- Designed and maintained four Python and FastAPI microservices supporting Telegram automation, lead qualification, analytics, CRM workflows, and internal operations.
- Built reliable real-time synchronization with Telegram using multiple accounts and MTProto-based integrations.
- Developed systems that accumulated and processed hundreds of thousands of leads for dozens of internal users.
- Created flexible pipelines for business-chat parsing, lead enrichment and qualification, outreach workflows, analytics, and operational reporting.
- Maintained system stability while supporting rapid implementation of new features and changing business requirements.
- Continued limited maintenance and legacy-system support from January 2026.

Technology: Python, FastAPI, PostgreSQL, MongoDB, RabbitMQ, Telethon, Telegram MTProto, REST APIs, Docker, Linux

Backend Developer and Project Manager — Platinum

2018 – 2020

- Developed backend services and microservices for a blockchain analytics platform and built custom API modules for token-sale products.
- Built a blockchain data pipeline that stored high-volume Ethereum and BNB Chain transactions in ClickHouse; wrote aggregation-heavy SQL for DEX activity, token launches, trading volumes, and daily metrics, then materialized precomputed dashboard datasets into PostgreSQL for fast API and chart delivery.
- Used gRPC and Protocol Buffers for service-to-service data exchange between transaction-processing, analytics, and client-facing API microservices.
- Expanded from hands-on backend development into requirements clarification, project coordination, and delivery management.

Freelance Web Developer

2014 – 2018

- Delivered full-stack web applications, business websites, and content platforms for small businesses.
- Built backend modules, custom object-oriented PHP frameworks, and an educational platform focused on building an Amazon-based business.

Education and Certification

Lipetsk State Pedagogical University
Specialist Degree in English Language Education · 2004–2009

ITMO University
Advanced Training in Data Analytics · 2021–2022

Cambridge English: Proficiency (CPE)
Cambridge English Scale score 198, CEFR C1 · 2019

Languages

Russian: Native
English: Fluent professional proficiency, CEFR C1; comfortable with technical interviews and daily work in international teams