



Andrei Ovsianikov

FULL STACK DEVELOPER

10+ YEARS OF EXPERIENCE

I GIVE MY CONSENT TO THE PROCESSING OF MY PERSONAL DATA,
OF MY OWN FREE WILL AND IN MY OWN INTERESTS.

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About

I specialise in designing project architecture and building scalable, high-performance systems using TypeScript(Node.js, NestJS, Express), Python(FastAPI, Django), and modern front-end frameworks (Vue/Nuxt, React/Next, Angular). I'm also proficient in PostgreSQL, MongoDB, Docker, Nginx, Redis, RabbitMQ, and Kafka. I'm experienced in leading projects, machine learning integration, and performance optimization.

Degree

Artificial intelligence - Master of Computer Science (MCS) – 2018 – SibSAU.
Software engineering - Bachelor of Computer Science (BCompSc) – 2016 – SibSAU.

Skills

Programming languages	JavaScript, TypeScript, Python, C#, Go
Front end	Vue, Nuxt, React, Angular, HTML, CSS, Bootstrap/Material/Tailwind
Back end	NodeJS, Express, Nestjs, ElysiaJS, FastApi, Django/DRF, Flask
Cloud	AWS (Amplify, Lambda, S3, Cognito), Google Cloud, Azure
Operating Systems	Linux, Windows
DBMS/MQTT/ORM	PostgreSQL, MongoDB, MySQL, Redis, RabbitMQ, Kafka, DynamoDB, Prisma, Drizzle, TypeORM, Sequalize, SqlAlchemy
Other technologies	Docker, Kubernetes, Nginx, Git, WebRTC, SocketIO.
Languages	Russian (Native), English (B2)

Professional experience

05/2025 to date – [layer3.press](#)
Full-stack Developer

Skills: JS/TS(Bun, Elysia, Drizzle, React, Remix, Zustand), PostgreSQL, Docker, Kubernetes, AWS, Kafka, Redis, Nostr, LLMs(ChatGPT, Gemini).

Developed layer3.press, a multi-tenant blogging platform with email (SendGrid) and Nostr-based subscriptions. Designed and implemented core platform architecture, including backend APIs, frontend applications, event-driven services, and scheduled workflows. Built authentication, publishing, and content management systems with email OTP and Nostr-based authentication via secret keys or browser extensions. Developed a Nostr-based blogging ecosystem using Nostr protocol specifications (NIPs), event-driven architecture, multi-relay publishing, event indexing and caching, profile synchronization, and automated publishing workflows. Created content management tools including a customizable MJML-based email template editor and a Lexical-based editor with custom plugins for images, YouTube embeds, Nostr integration, and paywall functionality. Implemented Markdown-to-HTML conversion pipelines. Developed subscription and monetization systems with Stripe Connect integration, paid subscriptions, paywalled content access, configurable subscription plans, publisher membership management, and gamified onboarding flows with automated publishing protection. Implemented AI-powered content processing and generation pipelines including summarization, translation, image generation,

content generation from crawled publisher data, opinion analysis, real-time narrative generation, and AI-powered article re-ranking. Built automated content ingestion and publishing infrastructure with RSS/site crawling pipelines, RSS normalization, AWS KMS-based secure key management, high-load background job processing with SSE notifications, X (Twitter) synchronization, and hCaptcha-protected forms.

09/2023 to 04/2025 – [“EURO ATLANTIC SMART TECHNOLOGY LTD \(SP. Z O.O\)” \(Poland\)](#)

Tech Lead, ML Engineer, Full-stack Developer

Skills: JS/TS(Nestjs, Prisma), Python(FastAPI, PyTorch, nltk), Azure (OpenAI, Storage, AI AzureSpeech, Custom question answering), LLM(Anthropic, ChatGPT, Gemini, phi3, Llama), LangChain, ChromaDb, PostgreSQL, Docker, Kubernetes, AWS(S3, transcribe, EC2), RabbitMQ, Redis, Firebase.

Designed and developed AI Q&A chat system (REST API + SSE) with integration of modern LLMs and cloud services, and knowledge base management platform with OCR, audio transcription, pre-processing for RAG systems and integration with LMS Docebo, Google Drive, AWS. Improved RAG accuracy by optimizing parameters (Optuna), re-ranking (Cohere) and RAGAS metrics. Led integration of LangChain and Langflow for improved AI workflows.

11/2022 to 09/2023 – [UDev](#) – Full-stack Developer

Skills: JS/TS(NestJS, Prisma), Python(FastAPI, Django), SocketIO, React, PostgreSQL, Docker, Kubernetes, Kafka, MongoDB, GCP.

1. **Migrated** the Tumeke (<https://www.tumeke.io/>) project from Python to NestJS; redesigned its architecture for optimization; developed an algorithm to calculate and visualize Ergonomic Posture Risk Assessment; optimized raw SQL queries; improved response times by 30x.
2. **Developed** Yandex Alice skill, along with an authentication API, to play background music on smart speakers using NLP command processing.

03/2022 to 11/2022 – Freelance([Upwork](#)) – Full-stack Developer

Skills: Node(Express), Python(Flask, Tornado), Vue, React, GraphQL, RabbitMQ, Docker, Postgres.

Developed a tournament scheduler for the gamified assessment system [Cibirlan](#); algorithms for team creation with role assignment; real-time chat using Socket.IO.

Developed an admin panel for a [video surveillance system](#) with a customizable dashboard, widgets, and WebRTC pipelines.

07/2021 to 03/2022 – [Altermeliora](#) – Full-stack Developer

Skills: TS, NodeJS(NestJS), React.js, Python(Django), GCP, PostgreSQL, Redis, Docker, MongoDB.

Developed: a payment platform for selling courses and physical goods. Implemented product form; category hierarchy builder; invoice form with payment system settings, discount and promo code logic; customizable invoice flow with auto-registration on third-party services; sales reports; tax calculation for sellers. Integrated delivery services (Shiptor, ChinaDivision); payment systems (Bluesnap, Fondy, PayPal, YooMoney, Stripe); email delivery (SendGrid); external course-selling platforms. Built calorie calculation, cross-platform sync, and multilingual interfaces.

10/2020 to 06/2021 – Freelance([Upwork](#)) – Full-stack Developer

Skills: TS, Node(Nest.js), Angular, AWS(Amplify/Lambda/DynamoDB/Cognito), RabbitMQ, Docker.

1. **Developed** an admin panel for the [MVP of a freight transportation](#) system with Cognito authorization, geocoding and data visualization using [here.com](#).
2. **Designed and implemented** scalable architecture for white-label licensing with request-based billing for [I-EXP](#) projects. Built a Telegram bot, neural network training data generation tools, image similarity vector search, and authentication.
3. **Built** a [website security analysis system](#).

08/2018 to 10/2020 – [YLab](#) – Lead Full-Stack Developer

Skills: Python(FastAPI,Django/DRF,Flask), SQLAlchemy, TensorFlow, TypeScript, AngularJS, Vuejs, Go, PostgreSQL, Redis, Celery, Docker, Minio, S3, scrapy/selenium, Clickhouse, MSSql.

1. [ECN.Broker](#) ([Esplanade MS](#)): **Led development of a fintech trading platform** including admin panel, user account, trader training pages, landing pages, email templates, authorization form. Built microservice for *MetaTrader 4* API, Telegram bot, referral program, forex calcs. Integrated payment systems (*RBK.money*, *Accentpay*, *Interkassa*, *SorexPay*); *WYSIWYG* editor *Quill*;

Claws&Horns); *google visualization charts*; *IndigoSoft*; *RAMM copy trading*; *Bpilot* for contract specification; *SendGrid* for email delivery.

2. [B2B-export](#): **Built** admin panel, user account pages, email templates, category hierarchy builder, bulk product import. Integrated ABBYY API for product translations.

3. [Carreta](#): **Implemented** product prices crawler and bulk price import feature.

4. **Developed internal projects**: CSV/XLS report aggregator, user testing system, OCR tool.

09/2016 to 02/2018 – [Aigeo](#) – Full-stack Developer

Skills: Python(Django/SQLAlchemy), TypeScript, AngularJS, OpenLayers 3, PostgreSQL.

Developed geospatial tools and applications for Yenisei GIS mapping platform. Focused on medical GIS features, combining OpenLayers with backend data pipelines using Python and PostgreSQL with PostGIS. Implemented Aigeo References, a comprehensive geospatial reference system. Created normalization tools to improve the accuracy of mapping algorithms.

Pet Project - MMOSG Game ManeTalk - 06/2020 to date

Skills: NestJS, Vue.js, Nuxt, Electron, RabbitMQ, Kafka, Docker, Godot, PostgreSQL, Minio.

Developed the [ManeTalk](#) website with SSO authentication and microservices-based backend for game modules. Designed scalable REST and event-driven APIs for managing profile data, character textures, inventories, and real-time chat, integrated with the Godot Engine. Implemented DDoS and bot protection via per-endpoint rate limiting, gibberish and Detoxify message classification, and multi account spam/flood detection using Longest Common Subsequence analysis. Built a Telegram Bot for admin notifications and moderation, and a desktop game launcher with a built-in anti-cheat system.