

Daniil MAKLAKOV



Backend Developer · Python/FastAPI, REST APIs & integrations

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EDUCATION

BSc Computer Science
University of Strasbourg
2023 – 2026
Algorithms and data structures (C, Python), memory management and concurrency; object-oriented programming (Java, C++); databases; networks and system architecture; software engineering (UML, Git workflow, testing, Agile).

BSc Engineering Physics
Kazan Federal University, Russia
2016 – 2020
Analysis, linear algebra, differential equations, numerical methods; theoretical physics, signal processing, measurement data analysis.

SKILLS

Languages
Python, JavaScript/TypeScript, SQL, Java, C/C++, Bash

Backend
FastAPI, Flask, Node.js, REST APIs, OAuth2, webhooks, ORM

Data
PostgreSQL, MySQL, NumPy, Pandas, scikit-learn

Ops & tools
Docker, nginx, Linux (Arch, Ubuntu), Git/GitHub, CI/CD, AWS, Postman

Front
React, Tailwind CSS, HTML/CSS

AI
LLM APIs (Llama, OpenAI, Groq), LLM integration in a product, coding assistants

LANGUAGES

French, English, Russian.

INTERESTS

Climbing, kung fu, badminton, yoga.

PROFILE

Freelance backend developer since late 2025: Python/FastAPI services, API integrations and data pipelines with PostgreSQL, which I deploy and run myself in production (Docker, nginx, Linux, AWS), including monitoring and incident diagnosis. Physicist by training, moved to software through a Computer Science degree in Strasbourg.

EXPERIENCE

Backend Developer February 2026 – present
Freelance — Optima Fence and Deck, remote

- Built the integration with Housecall Pro, then ported it to ServiceTitan when the client changed CRM.
- Replaced the remaining no-code automations (Zapier) with Python/FastAPI services.
- Two-way synchronisation between two CRMs, 13 webhook event types, duplicate handling and format normalisation.
- Three decoupled processes (webhooks, two pollers), idempotent processing with polling cursors persisted in the database.
- Running in production on AWS Lightsail with Telegram alerting: mapping errors, duplicated calls, retries after provider outages.

Backend Developer May – June 2026
Freelance — H Alliance, remote

- Synchronised the Meta Business / Instagram APIs with HubSpot CRM in JavaScript: automatic extraction, transformation and mapping of activity data.
- Handled authentication constraints and rate limits of the Meta APIs.

Backend Developer Nov. 2025 – early 2026
Freelance — Thumbtack API gateway, remote

- Synchronisation pipeline across three data sources (Thumbtack, HubSpot, Zoho).
- Full OAuth2 flow in FastAPI, deployed to production with Docker and nginx on a Linux server I administer.
- Jinja2 admin area: connected accounts, client API keys, state of each synchronisation.
- PostgreSQL data model with an ORM; still in production and actively used.

PROJECTS

DrawParty — real-time multiplayer web game 2026
Final-year project, BSc Computer Science — team of 9

- Real-time gameplay on a Node.js/Express server with Socket.io: rooms and lobbies, game lifecycle, turn rotation, player and state synchronisation.
- PostgreSQL for statistics, profiles and friends; front end in React and TypeScript with Tailwind CSS and a Fabric.js canvas.
- "AI Judge" mode: a vision LLM (Llama 4 via Groq) guesses players' drawings live, without degrading gameplay.

Feature attribution in a decision tree 2026
Machine Learning project

- Decision tree written in Python/NumPy, contribution of each feature estimated with Shapley values.