

YEGOR GAIDAR

Distributed Systems Engineer · Real-Time Data & AI Infrastructure

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PROFILE

Distributed systems engineer with **8 years** designing and operating production systems — from real-time embedded firmware to self-hosted cloud-native infrastructure. Full-stack depth across streaming data pipelines (Kafka, ClickHouse), container orchestration and scheduling (HashiCorp Nomad, Kubernetes/k3s), service discovery and zero-trust security (Consul, mutual TLS, ACLs, Workload Identity), infrastructure-as-code (Ansible, Proxmox), observability (Prometheus, Grafana) and applied AI/MLOps (PyTorch, on-device LLMs). Advanced Master in AI — Télécom Paris. Ranked **top 0.6% worldwide** on CodinGame.

PROFESSIONAL EXPERIENCE

Lead Developer & Founder Mar 2026 – Present

NetIntel — DePIN sensor-data platform · Île-de-France · Remote

- Real-time distributed pipeline ingesting, normalising and geolocating **932K+** multi-sensor points (WiFi / cellular / BLE / IoT) across France.
- Distributed architecture: Go/Gin API (30+ endpoints) · Kafka (KRaft) → ClickHouse (MergeTree, materialized views) · PostgreSQL · H3 geo-indexing (res 5–9) · Flutter 3.x client.
- Multi-layer anomaly and fraud detection (velocity, frequency, plausibility, signal) with Isolation Forest.
- High-performance mapping: server-side vector tiles (MVT), GPU-accelerated clustering, 3D globe projection.
- Infrastructure: Cloud Run · GitHub Actions CI/CD · Sentry (Go + Flutter) · **253 passing tests**.

Head of Digital Dec 2025 – Mar 2026

Shneider's Villemomble · Villemomble — 4-month contract

- Automated the ERP / CRM / WMS chain with n8n, removing the recurring manual re-entry of the same records across all three systems.
- Deployed an internal self-hosted AI stack (OpenWebUI + open-source LLMs + vector database), keeping company data on company infrastructure.
- Integrations: WhatsApp Business API, MCP-driven Trello orchestration.

Technical Lead Oct 2024 – Aug 2025

Planète Technologie · Paris — 11-month mission

- Re-architected and scaled a product-aggregation platform to **2M+** references: multi-source ingestion with a multilingual AI content-generation pipeline.
- Technical leadership: owned architecture decisions, ran code review, and mentored the development team.

Full-Stack Engineer / AI Lead Oct 2023 – Jun 2024

RDI Manager · Trappes — 9-month contract

- Built an AI platform for research-notebook analysis (NLP, LLMs, vector search, dashboards) on a microservices architecture with a semantic indexing pipeline.
- Replaced keyword lookup over research notebooks with semantic vector retrieval, so researchers find prior work by meaning rather than exact wording.

Télécom Paris — Advanced Master (Mastère Spécialisé) in Artificial Intelligence, Expert in Data & MLOps · 2022 – 2023 · full-time study

Full-Stack Web Developer

Sep 2020 – Jan 2023

SAYS Logistics · Compiègne

- Real-time logistics-tracking application: IoT sensors, automated alerting, operational dashboards.
- Automated the data flow between IoT ingestion and the operational dashboards.

Mobile Developer

Sep 2018 – Aug 2020

L'Âge Bleu · Mouy

- Mobile applications for retirement homes: Stripe payments, SMS notifications, accessibility-first UX for elderly users.

SELECTED PROJECT

Self-hosted distributed cluster — Nomad + Consul

2026

Personal infrastructure · bare-metal + Proxmox, two physical sites

- Designed and operate a production-grade cluster: 3-node Nomad + Consul control plane (Raft quorum) with a **12-worker fleet, 76 threads, 124 GB RAM**, provisioned end-to-end with Ansible.
- Hardware assembled from nine second-hand Mac minis and a used dual-Xeon server — **€0/month cloud cost**.
- Zero-trust throughout: gossip encryption, RPC and HTTP mutual TLS, ACLs, and Consul Workload Identity issuing per-service tokens.
- Full observability (Prometheus + Grafana, 21 targets, alerting to chat) and self-hosted GitHub Actions CI runners.
- Demonstrated self-healing: workloads reschedule on node failure in **~15 s**; reproducible bare-metal onboarding via Debian preseed automation.

TECHNICAL SKILLS

Orchestration	Nomad, Consul, Ansible, Kubernetes/k3s, Docker, Proxmox
Data & streaming	Kafka (KRaft), ClickHouse (MergeTree/MV), PostgreSQL 16, Redis, MongoDB, GraphQL
Security & network	Mutual TLS, ACLs, gossip encryption, Workload Identity, ansible-vault, JWT, OWASP, Tailscale
Observability & CI	Prometheus, Grafana, GitHub Actions (self-hosted runners), Sentry
Reliability	Self-healing scheduling, health-checked service discovery, automatic failover and reschedule, fault injection
Languages	Go, Rust, Python, C++, TypeScript, JavaScript, Dart, C#, Bash, SQL
AI & ML	PyTorch, TensorFlow, LLMs (OpenAI, Ollama), QLoRA fine-tuning, NLP, vector search, MLOps, Isolation Forest, DBSCAN, n8n, MCP
Embedded & IoT	ESP32/ESP8266, STM32/ARM Cortex, I2C/SPI/UART, IMU, BLE, RTOS, real-time firmware
Backend & API	Go (Gin, pgx/v5, gorilla/websocket), FastAPI, Django, NestJS, OpenAPI 3.1
Frontend & mobile	React, Next.js, Three.js, WebGL, WebAssembly, Flutter 3.x, Riverpod
Geospatial & Web3	H3 (Uber), vector tiles MVT/protobuf, trilateration, haversine, Mapbox · Solana (Anchor/Rust, Token-2022), PDAs, DePIN tokenomics

EDUCATION

Télécom Paris — Advanced Master (Mastère Spécialisé) in AI · Expert Data & MLOps	2022 – 2023
Institut F2I , Vincennes — Bachelor, Web & Mobile Development	2020 – 2022
Promeo / UIMM — BTS SIO, option SLAM (Software Development)	2018 – 2020

LANGUAGES & ADDITIONAL

Languages: French (fluent) · English (professional, B2+) · Ukrainian (native) · Russian (native)

CodinGame: top 0.6% worldwide · **Availability:** immediate · **Location:** Île-de-France — hybrid, on-site or remote