

Ayal Nogovitsyn

Forward Deployed AI Engineer · applied ML · agentic AI & LLM tooling · automation · open to remote

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PROFESSIONAL SUMMARY

Forward deployed AI engineer: I build systems where agents do the work people are still doing by hand, inside operations-heavy companies. Trained a CNN identification system to **88% unique-ID accuracy** and won national government funding with it; shipped **four open-source AI developer tools** in 2026, including 8 LLM connectors for CIS business systems; built a live geospatial demand-forecasting platform solo in one hackathon day. Now leads digitalization across a three-entity industrial group, building agentic AI and Python automation against real operational data. Eight years across government data platforms, ML research and multi-company technical leadership.

CORE COMPETENCIES

AI & ML: TensorFlow · Keras · scikit-learn · OpenCV · CNNs · computer vision · time-series forecasting · anomaly detection
Agentic AI: Claude Code · OpenAI Codex · custom agent skills · Model Context Protocol (MCP) · RAG · prompt engineering · local LLM pipelines
Automation & Data: Python · pandas · NumPy · ETL · n8n · scheduled jobs · document generation · PostgreSQL · MongoDB · H3 geospatial indexing · DBSCAN
Engineering: TypeScript · Next.js / React · Node.js · REST APIs · Docker · Linux · Git · GitHub Actions · Vercel · self-hosted VPS

SELECTED PROJECTS

Open-Source AI Developer Tooling: 4 tools shipped in 2026, solo · github.com/Aiyo28

- **Yzel: 8 MCP servers** exposing CIS business systems (1C, Wildberries, Ozon, Bitrix24, AmoCRM, Moysklad, Telegram, iiko) to any LLM client through one `pip install`. MIT.
- **Memento OS:** persistent-memory plugin for Claude Code; stores reasoning artifacts with invalidation and activation triggers, not transcript logs.
- **Xee-MCP:** read-only MCP server piping X/Twitter into any MCP client via one-command cookie auth; no paid API, no extension.
- **AIYO Wisper:** macOS app for fully local, offline LLM voice transcription (Swift).

GeoOS: Geospatial Demand Forecasting & Fleet Rebalancing · [live demo](#) · *inDrive hackathon, Sept 2025, architected and shipped solo in one build day*

- Owned the full stack: CSV/webhook ingestion → **H3 resolution-7** hex aggregation (~5 km²) → EMA + hour-of-week forecasting → DBSCAN hotspot clustering → driver-rebalancing simulator (Next.js, TypeScript).
- **MAPE < 15%** forecast accuracy on the anonymized GPS track set; rebalancing simulation returned **-23% rider wait** and **+18% driver utilization**; route-anomaly detection at **92%**, no PII retained.

WORK EXPERIENCE

IT & Digitalization Lead, ODAS Construction group · Atyrau, Kazakhstan · 05/2025 – present

ODAS Construction, West Invest, Sapaly Tas: construction and industrial supply to the Atyrau oil & gas cluster

- Own IT and digitalization across **three legal entities**: infrastructure, internal tooling, data pipelines and the AI automation roadmap.
- Built an automated weekly **tender-monitoring system in Python** covering state and Samruk-Kazyna procurement portals for **four legal entities**.
- Architecting **AIYO OS**, an internal operations layer aggregating 1C accounting, WhatsApp, e-mail and bank exports into AI-proposed routines, to end manual back-office reconciliation group-wide.
- Shipped a customer-facing platform (Next.js, TypeScript) with product catalog and online quotation calculator; run the self-hosted VPS fleet behind it (Docker, Linux, CI).

IT Engineer, WMG Group · Atyrau, Kazakhstan · 10/2024 – 04/2025

- Administered IT across **three group companies** (incl. IPS, KPG), Microsoft 365, SharePoint EDMS, LAN/Wi-Fi networks, print servers, multi-site support (as [Google IT Support certified](#)).
- Developed digital tools for an **NCOC contractor**: an HSE tracking system and a recruitment platform, plus internal ML-based analysis tools (Next.js, Docker, Python).

Software Engineer (AI/ML), North-Eastern Federal University (NEFU) · Yakutsk, Russia · 12/2021 – 03/2024

- Built a CCTV-based computer-vision identification system (CNN) reaching **88% unique-ID accuracy**; the results secured **national government funding** for follow-on AI projects.
- Developed predictive ML models of construction-material behaviour under extreme temperatures: analytics transferable to industrial-plant integrity monitoring.

Software Developer, Yakit LLC · Yakutsk, Russia · 02/2020 – 12/2021

- Government-appointed developer of state web systems; delivered three parallel government projects (TypeScript, Node.js) and led the national Official Statistical Accounting platform, cutting page-load times by **30%**.

EDUCATION, CERTIFICATIONS & LANGUAGES

B.Sc. in Computer Science · North-Eastern Federal University (NEFU), College of Infrastructure Technologies · Yakutsk, Russia

Google IT Support (Coursera, 2025) · IBM Full Stack Developer (Coursera, 2024) · Data Science (Bauman MSTU, 2019)

Languages: Russian, native · English, full professional proficiency (former English teacher)