



MAKSIM JATMANOV

Founder of Riigiluupee | AI/ML Engineer | Python, Go & Java Developer

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PROFESSIONAL SUMMARY

Founder and sole developer of Riigiluupee, an open-source parliamentary transparency platform for Estonia (Java / Spring Boot, PostgreSQL, React / TypeScript; autonomous data pipeline, public API, trilingual UI; launched publicly September 2026). Python developer (7+ years) specializing in AI/ML infrastructure and local LLM systems. Built NeuralForge — a full-stack AI command center managing 30+ AI models, multi-agent orchestration, RAG pipeline, SMM autopilot for 7 social platforms, Telegram AI bot with 14 personas and real-time voice cloning, image/video/3D generation pipeline, MCP server for Claude Code, and LoRA fine-tuning — all running locally on custom hardware (Threadripper PRO, RTX 3090 24GB, 128GB RAM). 69 REST API endpoints. Strong DevOps: Docker, CI/CD, Kubernetes (k3s), Prometheus, Grafana — 12-pod production cluster on Raspberry Pi. Active blockchain participant since 2015. Open-source contributor. Estonian citizen, based in Tallinn.

PORTFOLIO / PERSONAL SITE

Interactive terminal-style portfolio — designed and built from scratch (Vite + TypeScript, no framework) and self-hosted on my own Raspberry Pi 4 k3s cluster via Cloudflare Tunnel. Features a live cluster-status feed, trilingual UI (EN / RU / ET), my Rare Pepe & Dogeparty collections, playable in-browser games and easter eggs, this CV, and a small local LLM running on the Pi that you can chat with directly on the site. Everything is served straight from the Pi. A working demo of my full-stack, DevOps and self-hosting skills.

Live at: maxjatmanov.com

TECHNICAL SKILLS

Languages	Python (Advanced, 7+ yrs) · Go (Intermediate, 3 yrs) · Java (Spring Boot) · TypeScript · Solidity (Basic) · SQL
AI/ML	LLM inference (Ollama, 30+ models up to 70B) · Multi-agent orchestration (Solo/Team/Orchestrator) · RAG (Qdrant, ONNX GPU embeddings, bge-m3, 1800 docs/sec) · Fine-tuning (LoRA/QLoRA — LLM + music via ACE-Step/Unsloth) · Voice cloning (Qwen3-TTS + faster-whisper STT) · Image gen (ComfyUI, FLUX) · Video gen (Wan2GP) · 3D gen (Hunyuan3D) · Vision (MiniCPM-V, Qwen2.5-VL) · Prompt engineering · VRAM management
Backend	FastAPI · Spring Boot (Java) · React · REST API design · Microservices · API integrations · ETL pipelines · Real-time data processing · CLI tools · Telegram Bot API (Telethon User API)
AI Tooling	Claude Code · MCP Protocol (24 tools) · Custom AI Control Panel (FastAPI + JS) · Ollama API · Gradio API · AI-assisted development
DevOps	Docker · Docker Compose · Linux (Ubuntu) · CI/CD (GitHub Actions) · Kubernetes (k3s) · Prometheus · Grafana · Cloudflare Tunnel · Tailscale · NVIDIA CUDA · systemd · YAML module systems
Databases	Qdrant (vector DB) · ScyllaDB · Elasticsearch · SQLite · PostgreSQL · Redis
Blockchain	Counterparty/XCP · Bitcoin Core · NFTs · DeFi · DEX analysis · Tokenization · Smart contracts (Solidity) · Web3
Security	White-hat bug bounty (HackerOne) · Smart-contract exploit analysis & mitigation (approval revocation) · Website incident response (backdoor / malware removal, hardening)

KEY PROJECTS

Riigiluupee: Open-Source Parliamentary Transparency Platform for Estonia [riigiluupee.ee · github.com/DefinitelyN0tMe/riigiluupee]

Java · Spring Boot · PostgreSQL · Flyway · React · TypeScript · Vite · Docker · nginx · Testcontainers · EUPL-1.2

- Founder and sole developer. Turns the Riigikogu's open data into readable, neutral pages: how each MP votes, which bills they initiate, committee and group memberships, verbatim speeches, and how fast ministers answer written questions against the legal deadline. Every figure links to its official source; the methodology is published.
- Fully autonomous ingestion from 5 sources (Riigikogu API, rahvaalgatus.ee, ERJK, Wikidata, Riigi Teataja): votes and stenograms every 6 hours, the rest daily; per-run logging, Telegram alerting, content-hashed snapshots, entity resolution across sources, electoral history back to 1992.
- Public read API, dynamic sitemap, per-entity social previews, self-hosted cookieless analytics, uptime monitoring, trilingual UI (ET / RU / EN). Built in about five months; launched publicly on 14 September 2026 with the parliament's autumn session.

NeuralForge — Self-hosted AI Command Center [github.com/DefinitelyN0tMe/neuralforge]

Python · FastAPI · Ollama · Qdrant · ONNX · Telethon · Qwen3-TTS · faster-whisper · ComfyUI · ffmpeg · SQLite

- Full-stack self-hosted AI platform managing 30+ AI models, 11 GPU services, and 5 generation engines from a single web UI. 69 REST API endpoints.
- Multi-agent system: 13 role presets, 3 modes (Solo, Team with shared memory, Orchestrator with AI planning + quality review), 15 team presets, long-term memory
- SMM AI Department: trend scanning from 6 sources, 2-pass LLM content generation, ComfyUI image gen with auto-resize, auto-publish to 7 platforms (Telegram, Twitter, Facebook, Instagram, Threads, LinkedIn, Discord), content calendar, analytics
- RAG pipeline: indexed 52,314 vectors (390 Estonian laws) using ONNX GPU embeddings at 1,800 texts/sec — 180x faster than Ollama. Multi-collection Qdrant search with context memory
- Telegram AI bot: 14 unique meme personas responding from user's own account via Telethon. Multilingual auto-detection, conversation context, vision (MiniCPM-V), session-based logs
- Real-time voice cloning: voice message → faster-whisper STT → LLM response → Qwen3-TTS voice clone with sender's voice → OGG reply.
- Smart VRAM orchestration on single 24GB GPU
- Image → Video → 3D pipeline: ComfyUI (FLUX Klein 4B) → Wan2GP (Wan 2.2) → Hunyuan3D, automated via API with VRAM-managed exclusive GPU groups
- LoRA fine-tuning: trained music generation adapter (ACE-Step) on 30 old-school drum & bass tracks (100 epochs, loss 0.74). LLM fine-tuning UI via Unsloth (16 base models)
- MCP Server: 24 tools exposing entire infrastructure to Claude Code — monitoring, RAG search, agent execution, image generation, fine-tuning management
- YAML module system: add any new GPU service in 10 lines of config. Exclusive groups prevent VRAM conflicts. Health alerts for GPU temp, disk, services

Macronyx — Cross-Platform Macro Automation Engine [GitHub]

TypeScript · Electron · Cross-platform · 37+ stars on GitHub

- Open-source macro automation engine with timeline editing, trigger-based execution, and intelligent playback
- 37 GitHub stars — cross-platform (Windows, macOS, Linux), serves a real user community

CryptoWatch — Multi-User Crypto Monitoring Bot

Go · SQLite · Telegram Bot API · Docker · k3s · Raspberry Pi

- Real-time cryptocurrency monitoring Telegram bot with multi-user support and personalized alerts
- Deployed on Raspberry Pi running k3s (Kubernetes) — edge computing in production

Pi Homelab — Production Kubernetes on Edge Hardware

k3s · Prometheus · Grafana · Cloudflare Tunnel · Tailscale · Telegram Bot API · Docker

- 12-pod Kubernetes cluster on Raspberry Pi 4: Prometheus + Grafana + 7 Telegram alert rules, automated backups
- Custom Telegram bot for cluster management (/status, /pods, /top), public access via Cloudflare Tunnel

YTChop — Media Processing Web Service [ytchop.com]

Python · Redis · Docker · k3s · Cloudflare Tunnel

- Web service for media extraction and processing, deployed on Raspberry Pi k3s cluster with public domain

Crypto Portfolio Tracker

Go · ScyllaDB · ElasticSearch · Docker · React

- Full-stack data pipeline: real-time price ingestion → ScyllaDB → ElasticSearch → React analytics UI

scylla_mt — Database Migration Tool [GitHub]

Go · ScyllaDB · Cassandra · Docker · GitHub Actions

- Production-ready schema migration tool for ScyllaDB/Cassandra — Flyway-equivalent for CQL. Distributed locking, zero dependencies

Counterparty Blockchain Tooling & Bots

Python · Go · Telegram API · Counterparty/XCP

- Telegram bots for blockchain exploration: asset info, holder analysis, DEX monitoring. Rare Pepe NFT participant since 2015

WORK EXPERIENCE

Founder & Sole Developer, Riigiluu.ee

Apr 2026 – Present

Self-employed, civic-tech / open source · Tallinn, Estonia · [riigiluu.ee](#)

- Conceived, designed, built and operate an open-source parliamentary transparency platform for Estonia (Java / Spring Boot, PostgreSQL, React / TypeScript) with an autonomous data pipeline, a public API and a trilingual UI; launched publicly in September 2026 under the EUPL-1.2.
- Full ownership end to end: architecture, ingestion and data model, deployment (Docker, nginx, TLS), monitoring and alerting, CI, security hardening, documentation, and outreach to public institutions and NGOs in Estonia.

Independent Developer & AI/ML Engineer

Feb 2025 – Present

Self-employed — Tallinn, Estonia

- Built and open-sourced NeuralForge — full-stack local AI platform with 30+ models, multi-agent orchestration, RAG (52K vectors), SMM autopilot for 7 platforms, Telegram bot with 14 personas and voice cloning, generation pipeline, and MCP server (24 tools). 69 API endpoints.
- Trained custom LoRA adapters: music generation (ACE-Step, 30 tracks, old-school drum & bass) and LLM fine-tuning via Unsloth
- Implemented real-time voice cloning pipeline: STT → LLM → TTS with smart VRAM swapping on single 24GB GPU
- Managing production Kubernetes homelab (k3s on RPi): 12 pods, Prometheus/Grafana, 7 Telegram alert rules, Cloudflare Tunnel
- Developing CryptoWatch (Go) and YTChop media service — production on k3s

Backend Developer / Webmaster

Jan 2024 – Feb 2025

MYI OU — Tallinn, Estonia

- Maintained web infrastructure; developed Python automation for content and deployment workflows
- Integrated third-party APIs; implemented monitoring for uptime and performance

Founder & Developer (CNC & Laser Automation)

Nov 2017 – Feb 2022

Control-C OU — Tallinn, Estonia

- Founded CNC/laser manufacturing company; programmed automation systems; end-to-end operations

Mechatronics & CNC Engineer

2006 – 2016

Various Employers — Estonia

- 10 years in mechatronics, robotics, and CNC automation; welding robots and production line systems

EDUCATION & LANGUAGES

Education: Tallinna Tööstushariduskeskus — Mechatronics (2004–2008) | Continuous self-learning: AI/ML, LLMs, Docker, Kubernetes, Blockchain

Languages: Russian (Native) · English (Professional) · Estonian (B1)

Status: Estonian citizen, EU passport · Based in Tallinn · Available for hybrid / remote work · Ready to establish B2B entity