# Artemy Erkov

## Software Engineer | Backend & Business Process Automation

Moscow, Russia | Open to relocation and remote work
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## Summary

Software engineer building backend services with Python, FastAPI, Go and PostgreSQL. Experience in business-process automation and AI image processing, with additional Flutter and Unity/C# development.

## Skills

**Backend:** Python, FastAPI, SQLAlchemy, Go, REST APIs, JWT/OTP authentication, Kafka (test mode)
**Data and AI:** PostgreSQL, SQL, NumPy, LPIPS, OpenAI API, fal.ai, ComfyUI, Langfuse
**Delivery and interfaces:** Docker, Fly.io, Prometheus, Grafana, Git, OpenAPI/Swagger, React, Next.js, TypeScript, Flutter, Unity/C#

## Experience

**BK Group / Begovaya Plaza | Apr 2026 - Oct 2026**
**Software Engineer, Integrations & Business Process Automation**
*Commercial real-estate management* | *Sole developer working with a product manager*
- Built and maintained a Go/PostgreSQL service-request CRM, replacing Telegram chat threads with structured requests, assignments and explicit status tracking.
- Developed a standalone web-based task platform from an inherited Telegram Mini App, enabling administrators to manage tasks outside Telegram.
- Added an administrative MCP integration for the Tasklane platform.
- Built an office kanban board with Next.js.
- Set up service monitoring with Prometheus, with results sent to a Telegram chat; Grafana was provided by Fly.io hosting.
- Worked with Langfuse in test mode: validating employee reports and setting new tasks from them, taking all other tasks into account.
- Used Kafka in test mode to sync the org structure and employee profiles into the office task manager.
- Diagnosed email-delivery failures caused by the provider's daily quota, reduced synthetic monitoring traffic and verified delivery with a test email.

**Robotanica.ai | Nov 2024 - Apr 2026**
**Mobile / Backend Developer**
*AI garden-design product under development* | *Backend tasks defined by the CTO*
- Built Python/FastAPI backend microservices from scratch as the sole backend developer, using PostgreSQL for data storage and integrating AI generation services.
- Implemented background generation of four image candidates, filtering serious placement violations before comparing quality and selecting the best available result.
- Evaluated generated images with LPIPS, segmentation comparisons and GPT API checks using canopy and ground-cover masks; implemented coordinate transformations with NumPy.
- Built the Flutter application for iOS and Android from scratch and wrote Unity/C# scripts with AR Foundation for garden measurement and rendering.
- Deployed backend services to Fly.io and adapted its generated Dockerfile.

**LEGOcy | Nov 2023 - Jul 2024**
**Intern Full-Stack Developer**
*Used LEGO marketplace being prepared for launch* | *Tasks defined by the founder and CEO*
- Built the React/TypeScript application and website as the sole frontend developer, covering set listings, condition selection and comparison of user and site valuations.
- Contributed to administrative API development and refactoring in Go with PostgreSQL.

## Projects

**Nolan's Ark | Nov 2026 - Present**
*Custom miniatures business, built with a team*
- Writing its analysis bot in Go: it turns a Telegram export into a structured catalogue, picks up new messages live and builds catalogue sheets.

**Logopolza | Sep 2026 - Present**
*Volunteer software development* | *Speech-game application*
- Contributing to a Flutter/Flame speech-game app with Supabase content and offline caching.

## Education

National Research Nuclear University MEPhI | Master's in Software Engineering, expected 2028
MEPhI, Digital Department | Applied Data Analysis, professional development, Oct 2026 - expected 2027
Russian State University for the Humanities | Bachelor's in Hospitality Management, 2026

## Languages

Russian: native | English: B1+ | German: A2