Nurkhan Esenbek

AI / PYTHON DEVELOPER

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Python developer focused on LLM training infrastructure and AI developer tools. Build applications and CLI tools, contribute to open source, and write regression tests for numerical correctness and reproducibility.

OPEN SOURCE EXPERIENCE

Soup | Open Source Contributor — Aug 2026 - Present

85 merged pull requests | Python, PyTorch, Hugging Face Transformers / TRL, pytest

- Added training-run provenance with pinned Hugging Face base revisions, portable artifact metadata and training-file SHA-256 hashing. #1972, #2024
- Added token chunking and activation checkpointing for KL/JS distillation; tested loss/gradient parity and reduced autograd saved-tensor bytes. #743
- Fixed assistant-only loss masking in TRL SFT packing so prompt tokens are excluded from training loss; added regression tests. #1304

Stroq | Open Source Contributor — 2026

- Added verification for confirmed MCP runtime pins and a reproducible Codex hook probe with allow, deny and control cases. #194, #195
- Made interrupted MCP installations recoverable, preserving prior configuration and supporting retries and orphan-wrapper cleanup. #257

SELECTED PROJECTS

ContextOS — JavaScript / Node.js

- Built a CLI that exports shared engineering rules to coding-agent configurations, with task-based rule selection and drift checks in CI.
- Published contextos-agents and contextos-mcp on npm; validated installation, upgrades and rollback on Windows, Linux and macOS.

Story Forecaster — Python / FastAPI / SQLite

- Built a Gemini-powered narrative forecasting API with BM25 retrieval, chapter cutoff filters and isolated continuation branches with validated story-state changes.

WORK EXPERIENCE

iQadam Systems | Web Developer Intern — Oct 2025 - Nov 2025

Built responsive React/Next.js interfaces, reusable TypeScript components and REST API integrations in a team using Git.

SpaceLab LTD | Web Design / Programmer Assistant Intern — May 2025 - Jun 2025

Created Figma wireframes, website layouts and interactive prototypes for development.

TECHNICAL SKILLS

AI / ML: PyTorch, Transformers / TRL, PEFT / LoRA, SFT, GRPO, GSPO, distillation
Languages / Backend: Python, TypeScript, JavaScript, FastAPI, Node.js, SQLite, PostgreSQL
Tools / Frontend: Git / GitHub, GitHub Actions, pytest, Docker, Linux, MCP, React, Next.js

EDUCATION AND LANGUAGES

Astana IT College — 2023 - Jun 2026

Secondary vocational education | Software Development
Languages: Kazakh - Native | Russian - C1 | English - B1