

Miras Shaltayev

AI Engineer

Almaty, Kazakhstan • miras.shaltayev@gmail.com • 8 (708) 831 3445 • linkedin.com/in/iomiras
github.com/iomiras • t.me/iomiras

Experience

Backend Engineer

Kwaaka

Astana (Remote)

Mar 2025 – present

- Built an LLM-based analyzer for the WhatsApp tech support chat in Go with the Gemini API: classified about 300 messages per day into 8 categories, separated real support requests from other messages, and tracked first response time and outbound message count for the support team
- Added a LavinMQ queue for Webkassa fiscal receipts (about **5K per day**), with retries and idempotency by order ID, so retries do not create duplicates
- Migrated **24 AWS Lambda functions** (Go, Python, Node.js) into the core Go backend as the **primary contributor**, enabling self-hosted deployment and removing per-invocation costs

Research Assistant

PCMC Laboratory, Nazarbayev University

Astana, Kazakhstan

Sept 2024 – May 2026

- Wrote the experiment code and validated transformer models on new meteorological and SCADA datasets, from the start of the project
- Implemented LoRA fine-tuning, with 15% average improvement across the evaluated models
- Validated that CME-Patchformer outperforms baselines in long-term forecasting (3% average improvement)
- Built tooling to run and log experiments, including LoRA fine-tuning: a Redis-queue orchestrator and a REST API, so the team could compare models systematically

Education

Kazakh-British Technical University

MSc in Computer Science and Data Analytics

Almaty, Kazakhstan

Sept 2026 – June 2028

Nazarbayev University

BSc in Computer Science

Astana, Kazakhstan

Aug 2022 – June 2026

- Thesis: "Federated Learning and LLM for Privacy-Preserving Wind Speed and Wind Power Forecasting"
- Compared federated learning methods (FedAvg, FedProx, FedPer, FedLN, StatAvg) with LLM-based forecasting models on wind data from Kazakhstan and Vietnam
- **Relevant coursework:** Machine Learning, Artificial Intelligence, Probability Theory, Linear Algebra, Algorithms

Skills

Programming: Python, Go, SQL

ML and AI: LLM fine-tuning (LoRA/PEFT), transformers, time series forecasting, federated learning, Gemini API

ML tools: PyTorch, Flower, pandas

Backend: REST APIs, microservices, concurrency, payment and POS integrations

Languages: English (IELTS 8.5), Kazakh (native), Russian (fluent)

Publications

Assessment of wind energy potential using hybrid adaptive bandwidth kernel density technique: A case study of major cities in Kazakhstan

Jan 2026

Third author

[10.1016/j.jecmx.2025.101439](https://doi.org/10.1016/j.jecmx.2025.101439) (Energy Conversion and Management: X)

Enhancing Transformer-Based Wind Speed Forecasting on New Meteorological and Turbine-Level SCADA Datasets

Second author

(Advanced Engineering Informatics)