

Alikhan Rakhymzhan

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Education

Nazarbayev University | Astana, Kazakhstan

B.S. in Computer Science, Expected Jun 2028

School of Computing and Artificial Intelligence

Relevant Coursework: Algorithms, Performance and Data Structures, Linear Algebra with Applications, Probability, Programming Languages, Computer Systems and Organization

Projects

ShadowCoach | [GitHub](#) | [Live Demo](#)

Sep 2026

TypeScript, React, MediaPipe, FastAPI, PostgreSQL, Playwright | 2-day hackathon

- Built the real-time punch-capture pipeline for a browser-based boxing coach supporting 3 punch types and 2 stances using MediaPipe landmarks and custom geometric and temporal rules.
- Extended automated coverage for capture, feedback, and failure states; the full team pipeline passed 272 Node.js tests, 142 TypeScript-Python parity checks, and 28 Playwright scenarios.
- Established a reproducible 51.9% micro-F1 baseline from the team's end-to-end benchmark covering 100 labeled clips and 12 technique checks for future improvements.

NU Club Finder | [GitHub](#) | [Live Demo](#)

Apr 2026

Python, Sentence Transformers, scikit-learn, Streamlit

- Built a hybrid recommender for 150+ student organizations using Russian-to-English translation, Sentence Transformer embeddings, and a 70/30 blend of semantic similarity and categorical interest overlap.
- Deployed top-5 recommendations across 12 interest categories in Streamlit, adding query expansion and per-club social links.

Technical Skills

Languages: Python, TypeScript, SQL, C++

Machine Learning: scikit-learn, Sentence Transformers, MediaPipe, Pandas, NumPy, TensorFlow, Keras

Engineering: React, FastAPI, Streamlit, PostgreSQL, SQLAlchemy, Playwright, Docker, Git

Certifications

DeepLearning.AI, Deep Learning Specialization

Aug 2026

nFactorial School, Data Science Professional Certificate

May 2026

Additional Experience

Volunteer Interpreter

Oct 2023

Bolashaq Development Fund | International Education Fair | Almaty, Kazakhstan

- Enabled direct communication between 50+ international university representatives and local applicants through live interpretation.