

Nihad Aslanzade – Statistician/Full-Stack Engineer

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Summary

Statistician and Full-Stack Engineer (MSc Statistician, Sapienza University) with a strong foundation in advanced statistical modeling, system architecture, and machine learning. As a State Program recipient and mathematics olympiad finalist, I excel at bridging the gap between rigorous data analysis and scalable software engineering. Proven track record in designing end-to-end data architectures, deploying real-time AI pipelines, and analyzing complex user behavior or spatial datasets for high-traffic platforms. Adept at A/B testing, KPI tracking, and applying econometric techniques to optimize product performance, enhance data security, and drive automated, data-informed business strategies.

Professional Experience

System Architect & Full-Stack Engineer (Contract)

EduBrink / Remote

04/2026 – Present

- Infrastructure Revamp & Deployment:** Took over and overhauled the infrastructure of an existing educational platform. Successfully migrated the deployment environment from PM2 to Docker, containerizing the application for scalable and resilient operations.
- Database Migration & Security:** Re-engineered the database architecture, transitioning from MongoDB to PostgreSQL to ensure robust data relational integrity. Identified and patched critical security vulnerabilities to restore overall system health.
- CI/CD & Continuous Development:** Currently leading the ongoing full-stack development and continuous integration/deployment (CI/CD) pipelines, ensuring seamless feature updates and platform stability.

Full-Stack & DevOps Engineer (Contract)

Ismayilli Vocational State Center / Remote

02/2026 – 04/2026

- End-to-End Platform Architecture:** Engineered and deployed a comprehensive educational management platform. Architected both the frontend and backend systems from scratch to support digital workflows.
- DevOps & Security Hardening:** Streamlined DevOps deployment pipelines for efficient and automated releases. Implemented rigorous cybersecurity measures, including secure access controls, system-wide optimization, and advanced data protection protocols.

Data Scientist & AI Engineer

Toppick.io / Remote

11/2025 – 03/2026

- Data Infrastructure & ETL:** Architected and deployed the data architecture for a data-driven AI recruitment platform. Established robust ETL pipelines using Python (FastAPI) and PostgreSQL (JSONB) to collect, process, and analyze large volumes of structured and unstructured candidate data.
- NLP & Audio Analytics:** Developed advanced Natural Language Processing (NLP) and audio analysis pipelines. Optimized Voice Activity Detection (VAD) and high-accuracy Speech-to-Text (STT) models to extract actionable behavioral metrics and transcripts from real-time video interviews.
- Statistical Modeling & Algorithms:** Engineered a proprietary psychometric scoring algorithm ("Team DNA") utilizing statistical matching techniques (e.g., Cosine Similarity). Processed multi-dimensional psychological framework data (Big Five, Psycho-Geometrics) to quantify and predict candidate-to-team culture fit.
- AI Agents & Predictive Insights:** Designed data workflows for LLM-based conversational agents using Prompt Engineering and context retention strategies. Generated comprehensive candidate evaluation reports and data visualizations to provide objective, data-backed hiring insights for HR teams.

Data Scientist & Product Analyst

Kranni / Remote

03/2025 – 02/2026

- Data Infrastructure & KPI Tracking:** Architected the core data collection strategy for a cross-platform mobile marketplace. Designed PostgreSQL database schemas via Python/Django to capture detailed user interactions, order lifecycles, and geolocation data, enabling the generation of real-time business intelligence dashboards.
- Spatial Data & Matching Algorithms:** Extracted and analyzed spatial data (via Google Maps API) to evaluate supply-demand density between customers and artisans. Applied statistical distance modeling to optimize the "order radar" algorithm, significantly reducing matching latency and improving operational efficiency.
- A/B Testing & User Behavior Analysis:** Conducted rigorous A/B testing on push notification payloads (FCM/APNs) and delivery times to maximize user engagement. Utilized statistical hypothesis testing (t-tests, p-values) to determine the most effective messaging strategies, leading to increased order acceptance rates.

- **Data-Driven Product Strategy:** Cleaned and pre-processed raw application data to identify bottlenecks in the customer registration and order-creation funnels. Provided actionable quantitative insights to the development team, directly influencing UI/UX improvements and feature rollouts.

Sales Analyst

Sulax (sulax.com.tr) / Baku, Azerbaijan

05/2023 – 07/2023

- **Sales & Performance Reporting:** Analyzed cross-channel sales metrics and compiled comprehensive performance dashboards, streamlining the reporting process and providing management with clear visibility into key revenue drivers.
- **Trend Forecasting:** Formulated short-term revenue projections based on historical sales patterns, enabling the business to identify high-growth opportunities and optimize resource allocation.
- **Market Research & Strategy:** Executed competitive market research and consumer trend analysis, delivering actionable insights that supported the optimization of pricing and targeted promotional strategies.
- **KPI Tracking & Optimization:** Tracked and evaluated core sales KPIs to identify performance bottlenecks, recommending targeted strategies that improved overall sales team productivity and conversion rates.

Economic Analyst (Intern)

Cabinet of Ministers of the Republic of Azerbaijan / Baku, Azerbaijan

02/2023 – 05/2023

- **Macroeconomic Research & Analysis:** Analyzed key macroeconomic and regional development indicators using Advanced Excel (Power Query, Pivot Tables) and Python (Pandas) to support evidence-based policy research.
- **Socio-Economic Reporting:** Consolidated and verified large-scale socio-economic datasets from various governmental bodies, identifying and resolving data discrepancies to ensure the absolute accuracy of official economic reports.
- **Strategic Insights & Forecasting:** Assisted senior economists by synthesizing complex regional financial data into actionable insights, contributing to the preparation of analytical briefs and short-term economic forecasts.

Education

MSc in Statistical Methods and Applications

09/2023 – 01/2026

Sapienza University of Rome / Rome, Italy

BBA in Economics

Academy of Public Administration under the President of the Republic of Azerbaijan / Baku, Azerbaijan

09/2019 – 06/2023

Languages

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| • English – Full Professional Proficiency | • Russian – Elementary Proficiency |
| • Azerbaijani – Native Proficiency | • Turkish – Full Professional Proficiency |

Skills

- **Programming Languages:** Python, R, Bash, SQL, HTML.
- **Data Analysis&Dev Tools:** Tableau, Power BI, Pandas, Numpy, Scikit-Learn, TensorFlow, MATLAB, SPSS, SAS, IBM ILOG CPLEX Optimization, SQLAlchemy, Pydantic.
- **Version Contro&DevOps:** Git, Docker, VPS/VDS Management, Nginx, CI/CD Pipelines, Redis, PostgreSQL, Celery.
- **MS Office Suite:** Word, Excel, PowerPoint
- **AI & Engineering:** Large Language Models (LLMs), Prompt Engineering, Retrieval-Augmented Generation (RAG), Audio Processing Pipelines, PyQt5 / Qt Graphics Framework .
- **Others:** Sales Strategies and Marketing, Public Speaking, Optimizing Algorithms, Survey Sampling, Econometric Techniques, Product Management.