Nurbek Khalmatay

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OBJECTIVE

Computer Science student in the final year of study with 1+ year of T-shaped experience as a Data Scientist and Software Engineer. Seeking a challenging role in data science and software development to leverage my analytical and software engineering skills, contributing to innovative, data-driven solutions.

EDUCATION

Sapienza University of Rome   Rome, Italy
Erasmus Scholarship Exchange Student, MSc Data Science   *Sep. 2024 – Mar. 2025*
*The largest university in Europe, ranked **134th** globally and 2nd in Italy in the 2024 QS World University Rankings.*
Coursework: Algorithmic Methods of Data Mining, Fundamentals of Data Science

Satbayev University   Almaty, Kazakhstan
Bachelor of Computer Science, GPA: 3.87/4.00   *Sep. 2021 – Jun. 2025*
The leading technical university in Kazakhstan, known for its focus on engineering and technology.
Coursework: Linear Algebra, Algorithms and Data Structures, Databases, Data Analysis, Machine Learning
Activities: Member of the Academic Council Department of Software Engineering, Google Developer Student Club Lead

EXPERIENCE

Data Scientist Intern   Almaty, Kazakhstan
Veon, Fintech team | *Python, PySpark, Hadoop, Airflow*   *Jul. 2023 - Jan. 2024*
VEON is a global digital operator that provides mobile and internet services to over 200 million customers in 9 countries.

- Increased the speed of calculating web dashboards on Airflow by **20%** by developing and replacing Astellia source with Deep packet inspection (DPI), processing **3 billion records** for web interests every day.
- Contributed to an internal library to accelerate the **ML life cycle**.
- Conducted pilots for clients and unloading various statistics.

Research Fellow & Software Engineer   Almaty, Kazakhstan
Spark Lab, Indrive | *Python, NumPy, pandas, Plotly*   *Jan. 2023 - May 2023*
Indrive's Spark Lab is a research-driven initiative that focuses on developing innovative technologies for solving ecology problems.

- Developed **algorithms** that make it possible to identify vehicles with **a high probability of exceeding emission standards**. These algorithms are integrated into the eco-sensor system, which reduces the time for checking vehicles and increases the efficiency of eco-posts.
- Processed about **52,000 vehicles** and **84,000 eco-sensor records**. According to the results of the scoring, all cars were rated. The top **388 cars** (suspects) were transferred to Almaty Police Department (uploaded to tablets).
- Developed **interactive visualization of sorted data on the map** with data of date, time, number of cars near cameras and eco-sensors, PM 2.5 indicators.

Full Stack Developer   Almaty, Kazakhstan
Full-Stack Developer Summer Bootcamp, nFactorial Incubator   *Jun. 2022 - Aug. 2022*

- nFactorial Incubator is the largest tech Bootcamp **in Central Asia led by Princeton U graduate, FAANG engineers**.
- 10-week fullstack web development bootcamp program with **4.4% acceptance rate** (181 out of 4071).
- Attended daily lectures and learned about how to build the website with React.js and how to write the Backend in JS, Node.js

LEADERSHIP AND AWARDS

Google Developer Student Club Lead: Organized events involving more than 300 participants; Selected one of the best executives in Central Asia, receiving the award for a trip to **Amsterdam Google I/O**.
3rd Place in the Almaty Ecology Tech Challenge (3 out of 80)
Participant of ICPC Northern Eurasia Finals 2023
Nazarbayev Foundation Scholarship 2023, **Yessenov Foundation Scholarship** 2024

TECHNICAL SKILLS

Languages: Python, SQL (Postgres), JavaScript
Frameworks: React, Node.js, PySpark, FastAPI
Developer Tools: Git, VS Code, PyCharm, Airflow, Hadoop
Libraries: pandas, NumPy, Matplotlib, Plotly