Nikita Jegorovs

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PERSONAL STATEMENT

I'm a Mathematics graduate from the University of Edinburgh with a strong interest in building data-driven systems that connect theory with practice. Having co-founded an AI startup, I've worked across the full data lifecycle — from analysis and modelling to deployment — applying mathematical reasoning to practical challenges. I value precision, structure, and impact in everything I build.

WORK EXPERIENCE

PharmaOH | London, United Kingdom **Jan '25 – Now**

Co-Founder & Machine Learning Engineer

- Built a Python/Pandas + PostgreSQL pipeline merging EU drug sales with data from ChEMBL and national drug agencies.
- Developed a FastAPI + ReactJS app for manual entry and validation; later replaced by automated crawlers for ingestion.
- Used scikit-learn to cluster therapeutically similar or interchangeable drugs, then compared country sales across 2018–2020, after normalising by total country sales, to spot categories with lower-than-expected demand and underrepresented areas across Europe.
- Ran statistical checks to flag underperforming clusters and highlight possible market opportunities across Europe.

HSS-PROSERVICE | London, United Kingdom **Oct '24 – Jan '25**

Back-end software engineer

- Developed and maintained backend APIs of the HSS Proservice marketplace using Scala with Cats, a fully functional stack, ensuring high performance and scalability.
- Identified, debugged, and resolved critical issues, improving system stability and overall efficiency.

UNISO | Riga, Latvia **Aug '19 – Sep '24**

Full-stack software engineer

- Developed modern IT systems for the local market (e.g. eParaksts: an e-signature system for citizens of Latvia) using Scala for the back-end part (including Akka toolkit for networking and optimisation), Svelte for the front-end part and PostgreSQL database.
- Designed and implemented a new data structure as well as led data migration to the new structure for one of the projects.
- Contributed to several in-house developed frameworks and toolkits (treSQL, querease and mojoz), which were actively used across all the projects in the company to streamline system development. Suggested change requests and tested new features.
- Helped to write documentation for wabase – a tool for database and data transfer object definition for Scala through YAML files. In addition to the documentation, developing a sample project designed to serve as a playground to master the required stack.

EDUCATION

The University of Edinburgh | Edinburgh, UK **Sep '21 – Jul '24**

Bachelor of Science in Mathematics with Honours

- Achieved Second Class, Division 1 (also known as 2:1)
- Built foundational knowledge in key math areas to gain a broad base with a focus on algebra and computational modules
- Writing my final project on the axiomatic approach to measuring the diversity and entropy of systems

Riga State School No. 1 | Riga, Latvia **Sep '13 – Jun '19**

Certificate of Secondary Education

- Graduated from the Nation's leading high school with a focus on Mathematics, Physics and Informatics.
- Achieved a final grade of 90% with an 87% average in the final exams (equivalent to an Upper First-Class Degree). Ranked top 1% out of 55k candidates nationally in the Centralised Mathematics Exam.
- Represented the school in National Mathematics, Physics and Chemistry Olympiads annually.

EXTRA-PROJECTS

Edinburgh University Formula Student | Edinburgh, UK **Sep '21 – Jul '24**

Executive Committee member and Software Engineer at the Localisation and Mapping team

- EUFS is a multidisciplinary student team that comes together each year to construct an F1-style race car and an autonomous race car to compete at the Formula Student competition, where our team won the autonomous division for 7 years in a row.
- Member of the Executive Committee 2023/24 – recruited and led a team of five people to manage the team's social presence.
- Developed and optimised algorithms to improve the race car's ability to dynamically map the track during the race and understand where it is located within the track. Used Python as proof of concepts and then implemented algorithms in C++ and ROS.