

Roman Novikov

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About

Data Engineer with over 3 years of experience in developing and optimizing data processing pipelines, automation systems, and cloud-based solutions. Proven track record of leading projects that increased processing efficiency by 40% and reduced errors by 30%. Skilled in designing and maintaining scalable, robust systems using modern technologies. Experienced in managing complex workflows and collaborating across multidisciplinary teams to deliver high-quality software solutions.

Skills

Languages	Python, Bash, JavaScript
Technologies	FastAPI, Pytest, Docker, Kubernetes, Jenkins, AWS, PostgreSQL, ClickHouse, MongoDB, Tortoise ORM, Apache Kafka, Apache Airflow

Experience

Hero.io <i>Data Engineer</i>	<i>October 2024 - Present</i> <i>Dubai, UAE</i>
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- Designed and optimized robust data pipelines for transforming and validating data across multiple sources.
- Collaborated on automating data cleansing techniques to ensure high-quality inputs for ML models.

BostonGene <i>Software Engineer</i>	<i>October 2022 - October 2024</i> <i>Waltham, MA</i>
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- Developed and standardized data pipelines using Python, CWL, AWS, Docker, and Concourse, leading to a 30% faster integration of new features and significantly reducing development time.
- Streamlined workflows across two R&D labs by updating LIMS systems, reducing manual entry time by 50% and improving collaboration between teams.

<i>Data Analyst</i>	<i>September 2021 - October 2022</i> <i>Waltham, MA</i>
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- Developed an analytical system using FastAPI and JavaScript significantly speeding up sample verification processes by 60%.
- Automated data validation processes for large datasets, increasing processing efficiency by 40% and reducing error rates by 30%.

Education

Moscow Institute of Physics and Technology <i>Master's degree in Applied Mathematics and Physics,</i> <i>Professional qualification in Data Science</i>	<i>September 2022 - June 2024</i> <i>Moscow, Russia</i>
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Awards: Scholarship of Vladimir Potanin Foundation

Lomonosov Moscow State University <i>Bachelor's degree in Biology, Major in Bioengineering</i>	<i>Septembre 2017 - June 2021</i> <i>Moscow, Russia</i>
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Projects

iGEM Projects (2019 and 2020) <i>Moscow, Russia</i>	<i>March 2019 - November 2020</i>
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Led modeling efforts in two award-winning CRISPR/Cas biosensor projects for the international iGEM competition. Developed biosensors for hepatitis C and Lyme disease detection, achieving high sensitivity and specificity. Successfully presented results in Boston.