Roman Novikov

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About

Software 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, Concourse, AWS, PostgreSQL, ClickHouse, Tortoise ORM, Kafka, RabbitMQ, KeyDB

Experience

Hero.io — *October 2024 - Present*
Data Engineer — *Dubai, UAE*

- Monitored and troubleshot API endpoints, ensuring data accuracy, completeness, and reliability across multiple data streams.
- Implemented data transformation and cleansing techniques to validate data from diverse sources, including manual data entries.

BostonGene — *October 2022 - October 2024*
Software Engineer — *Waltham, MA*

- 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.

Data Analyst — *September 2021 - October 2022*
Waltham, MA

- 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 — *September 2022 - June 2024*
Master's degree in Applied Mathematics and Physics, — *Moscow, Russia*
Professional qualification in Data Science
Awards: Scholarship of Vladimir Potanin Foundation

Lomonosov Moscow State University — *Septembre 2017 - June 2021*
Bachelor's degree in Biology, Major in Bioengineering — *Moscow, Russia*

Projects

iGEM Projects (2019 and 2020) — *March 2019 - November 2020*
Moscow, Russia

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.