MIKHAIL SHAROV

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EXPERIENCE

Data Analyst - REsurety Inc.   July 2022 - Present
Risk and Transactional Data Analytics   *Boston, MA*

- Scoped and executed the development of a critical pipeline using Pandas and DuckDB SQL queries to automate Snowflake data entry cutting manual analyst work time by 75%
- Created a production pipeline that web scrapes energy prices from 6 sources into a staging S3 bucket and uses Pandas and SQLAlchemy to compare these prices to internal Postgres data tables, reducing monthly pricing errors in client reports
- Developed data end points from Snowflake databases using FastAPI alongside staff data engineers to expose meteorological data for analytics use, decreasing engineering overhead
- Extracted requests from an external client SFTP using Lambda to retrieve internal production data, populating a view used by the client to evaluate market-based instruments
- Implemented scheduled validation pipelines for external pricing systems and internal source of truth databases using Airflow

Data Analyst - Boston University   September 2018 - May 2021
Analysis of Io's Changing Atmosphere in Eclipse   *Boston, MA*

- Analyzed 10 large (million+ records) data sets taken at 3 telescope sites and developed a Python reduction pipeline to perform data cleaning, isolating relevant signals for further analysis
- Discovered 3 significant time-dependent trends in Io's atmospheric behavior using the pipeline and formatted the findings into publications for 2 major presentations and a scientific journal
- Presented results and facilitated scientific discussion at the Europlanet Science Congress (EPSC) and APO Science Symposium to panels of 30+ professionals

Data Analyst - CERN   February 2020 - August 2020
Characterization of CMS HGCAL Prototype Modules   *Geneva, Switzerland*

- Automated manual checks to wrangle experimental data via Pandas of 4 prototype modules' in an electron particle beam reporting module performance for client hardware developers
- Designed a vital Python scripts to apply complex statistical models to describe module behavior and post results to a Postgres warehouse, removing reliance on flat files

EDUCATION

Boston University   September 2017 - May 2021
B.A. in Astrophysics (Magna Cum Laude)   *Boston, MA*

CERTIFICATIONS

AWS Certified Cloud Practitioner   September 2023

RELEVANT SKILLS

Storage	Snowflake, S3, RDS, DynamoDB, PostgreSQL
ETL(LT)	PySpark, Airflow, dbt, Cron, Lambda
Languages	Python (Pandas, SQLAlchemy, DuckDB, FastAPI), SQL, R
System and Version Control	Git, Bitbucket, EC2, ELB, IAM, Bash