

# MIKHAIL SHAROV

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## EXPERIENCE

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### **Data Analyst - REsurety Inc.**

June 2022 - Present

*Risk and Transactional Data Analytics*

*Boston, MA*

- Extracted and utilized data from 14 solar and wind farms to create a modeled proxy to electrical generation in order to settle the project's contractual obligations
- Created an automated pipeline to validate internal energy market price data stored in a Snowflake database with webscraped prices from 5 external data suppliers
- Developed routine systematic checks for changes in source of truth PostgreSQL tables using a SQL interfacing Python pipeline
- Implemented scheduled validation pipelines for external pricing systems and internal source of truth databases using dataflow orchestration
- Improved production data pipeline security

### **Data Analyst - Boston University**

September 2018 - May 2021

*Analysis of Io's Changing Atmosphere in Eclipse*

*Boston, MA*

- Analyzed 10 large data sets taken at 3 telescope sites and developed a Python and IDL reduction pipeline to perform data cleansing and isolate relevant signals for further analysis
- Discovered 3 significant time-dependent trends in Io's atmospheric behavior and formatted the findings into publication quality figures and text for 2 major presentations
- 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*

- Evaluated experimental data of 4 prototype modules' responses to an electron particle beam, including sorting out irrelevant data and selecting characteristics to examine module performance
- Designed a critical Python pipeline to apply complex statistical models to describe module behavior
- Collaborated to produce professional reports detailing module performance for leaders of a \$950 million project, which will use my pipeline to test and implement future modules

## EDUCATION

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### **Boston University**

September 2017 - May 2021

*B.A. in Astrophysics (Magna Cum Laude)*

*Boston, MA*

## RELEVANT SKILLS

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### **Data Tools**

PostgreSQL, Snowflake, S3, Redshift, BigQuery

### **ETL and Orchestration**

Python (Pandas, SQLAlchemy, Beautiful Soup, Requests, configparser), SQL, Airflow, dbt, Cron, Tableau, R

### **Version Control and System**

Git, Bitbucket, AWS EC2, Bash, Unix

## PUBLICATIONS AND AWARDS

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- Io's Optical Aurorae in Jupiter's Shadow (Schmidt et al. 2023), The Planetary Science Journal
- An ARCES study of Io's Aurora in Jupiter's Shadow (Sharov et al. 2021), APO Science Symposium
- An Extreme-precision Radial-velocity Pipeline: First Radial Velocities from EXPRES (Petersburg et al. 2020)
- Dorrit Hoffleit Scholarship (2019) - 1 of 2 candidates accepted for the highly prestigious scholarship to perform research at Yale University