Max Saparov

Github | Personal Site

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EXPERIENCE

Acronis, NYC — *Software Engineer*

JUNE 2022 - Present

Placed as lead to design and build full ETL pipeline to store client metric data. Used and deployed Kafka, Druid, and Superset clusters via Saltstack. Independently wrote custom programs to parse terabytes of unstructured data per day.

Acronis, NYC — *Cyber Infrastructure Research Intern*

JUNE 2021 - SEPTEMBER 2021

Designed and managed a data pipeline which would parse network utilization data from old server-side logs.

PASSION PROJECTS & RESEARCH

Plumber-Queue — *Software Engineering*

JUNE 2023 - Present | github

Developed a blazingly fast, simple, and efficient alternative for enterprise message queues such as Kafka and SQS. Plumber Queue is a best-effort queue for smaller use cases where managing a full cluster is unnecessary.

Plumber — *Software Engineering*

JUNE 2023 - Present | github

Created suite for managing robust process pipelines. Currently contains CLI tools for supervising pipelines and a custom Kafka client for easy integration with the toolkit.

Restaurant Survival Analysis — *Machine Learning*

JUNE 2023 - SEPTEMBER 2023 | paper

Leveraged public Yelp review dataset to research the feasibility of predicting restaurant closures based on historical review trends. Experimented with using ChatGPT to parse sentiment as an additional feature in our dataset.

EDUCATION

New York University

B.A Mathematics & Economics | B.A Computer Science

SKILLS

Lang: Rust, C/C++, Python, R, Java, Perl, JavaScript

Data: Spark, Kafka, SQL, MongoDB, Druid, Superset, Clickhouse, Hadoop, JupyterLab

Infra: AWS, Terraform, Saltstack, Docker, Podman, Linux / Unix

Libraries: Pandas, Scikit-learn, Seaborn, NumPy, Statsmodels, OpenMP, CUDA

RELEVANT COURSEWORK

Predictive Analytics

Parallel Computing

Advanced Econometrics

Linear Algebra

Calculus III

Mathematical Modeling

Data Structures

Discrete Mathematics

Mathematical Analysis

Basic Algorithms

Analytical Statistics

Risks & Fluctuations in Financial Markets

ODE

LANGUAGES

English & Russian
Elementary Japanese