# Liu Jason Tan

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### Experience

**Morgan Stanley** 

New York, NY

Analyst, Operational Risk Analytics

August 2022 - Present

• Built **end-to-end models** from concept to production using **R**, **Python**, and **Git** to **automate** manual processes, model testing, documentation, and presentations, reducing over 50% workload

- **Collaborated** with global teams to complete shared goals and meet global **regulatory** requirements to pass 100% of regulatory and audit screenings
- Balanced multiple internal and regulatory projects to meet strict deadlines while coming up with **unique solutions** to improve efficiency of the team leading to ~80% faster turn-around time

### Education

Master of Applied Data Science - August 2022

University of Michigan – Ann Arbor

**Bachelor of Science in Information Systems** – *May 2020* 

Stony Brook University

GPA: **4.00** /4.00

Ann Arbor, Michigan

GPA: 3.64 /4.00

Stony Brook, New York

#### Skills

- Languages and Tools: Python (with libraries such as Numpy, Pandas, Keras, TensorFlow, SciKit Learn, Pyspark, SciPy, and NLTK), R, SQL, Git
- Constructed models with supervised and unsupervised machine learning algorithms such as deep neural networks, classification, clustering, dimensionality reduction, and regression
- Data **extraction** (SQL), data **manipulation** (Python), getting **insight** from data, data **visualization** (Python), and **presentation** to stakeholders
- Communicating complex technical concepts to stakeholders to make informed decision, Problem-Solving with outside-the-box solutions, track record of improving efficiency in the team

## **Projects**

- Text Classification (internal) Applied **Natural Language Processing** techniques on operational risk issue description to **vectorize** and **transform** text data. Used **Machine Learning** to classify risk issues to correct risk type with over **90% accuracy**. Reduced manual labeling work by 90%.
- Advanced Measurement Approach (AMA) for Capital Reporting Ran 1 million Monte Carlo Simulations to determine operational value-at-risk (VaR) losses at 99.9 percentile, calibrated using historical losses. Passed 100% of regulatory requirements.
- Comprehensive Capital Analysis and Review (CCAR) and Quarterly Stress Test (QST) Used statistical regressions modeling, macro-economic variables, and historical risk loss data to forecast operational risk losses in the next 9 quarters. Passed 100% of regulatory requirements.