# Liu Jason Tan

Location: New York City • Phone: (347) 764 – 5660 • E-mail: liu.jason.tan1@gmail.com LinkedIn: https://www.linkedin.com/in/liujasontan/ • Website: https://liujasontan.com/

## Experience

**Morgan Stanley** 

New York, NY

Analyst, Operational Risk Analytics

August 2022 - Present

- Combined knowledge from machine learning experts, operational risk management, model risk management, etc. to facilitate company-wide risk mitigation and data-driven decision making
- Leveraged machine learning techniques and natural language processing to build end-to-end models from concept to production using R, Python, and Git
- Maintained federal **regulatory reporting** requirements with **model risk management** for stress testing and capital reporting using statistical regression modeling, and simulations
- Analyzed large datasets and collaborated with business units to assess operational risk, find potential **risk mitigations**, and provide risk management guidance
- Used advanced machine learning to enhance internal quality assurance of operational risk (including fraud) issues and incidents
- Communicated complex data-driven insights to non-technical stakeholders, aiding in informed decision-making and strategy formulation.

### Education

#### **Master of Applied Data Science** - August 2022

University of Michigan – Ann Arbor

GPA: **4.00** /4.00

Ann Arbor, Michigan

Relevant Courses: Data Mining, Big Data, Supervised Learning, Unsupervised Learning, Deep Learning, Applied Natural Language Processing

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

Stony Brook University

GPA: **3.64** /4.00

Stony Brook, New York

#### Skills

- Programmed in C, HTML, CSS, Java, R, SQL, Spark, and Python (with libraries such as Numpy, **Pandas**, **Keras**, TensorFlow, SciKit Learn, Pyspark, **SciPy**, and NLTK)
- Constructed models with supervised and unsupervised machine learning algorithms such as **deep** neural networks, classification, clustering, dimensionality reduction, and regression
- Familiar with Data Mining and Time Series Analysis concepts such as Apriori, **Hidden Markov Models**, Fourier Theorem, Dynamic Time Warping, and ARIMA,
- Implemented Natural Language Processing (NLP) methods such as Word2Vec, WordNet, Part-Of-**Speech Tagging**, **LSTM**, and **BERT** for sentiment analysis and word-sense disambiguation
- Advanced proficiency in Microsoft Office (Word, PowerPoint, Excel), Git, and programming (Python and **R)** with the ability to learn new tools and platforms quickly
- **Detail -Oriented** with the ability to work under pressure, meet strict deadlines, and balance **multiple projects** to deliver quality results to stakeholders
- Strong communication, collaboration, time management, critical thinking, and problem-solving **skills** with a passion for working and learning in a fast-growing company