Lucy Chen

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**EDUCATION**

**Baruch College, Zicklin School of Business (GPA:3.6/4.0) New York, NY**

Master of Data ScienceAugust 2023 – December 2024

Core courses: *Principles of Database Management Systems(A), Programming for Analytics(A), Data Visualization(A)*

**Nanjing Normal University (GPA:3.7/4.0) Nanjing, China**

Bachelor of Economics, Minor in Computer Science  August 2017 – June 2021

Core courses: *Microeconomic(A), Econometric(A), Accounting(A), Corporate Finance(A), Data Structure(A), Machine Learning(A)*

**WORK EXPERIENCE**

**Radical AI New York, NY**

***Software Engineer Intern*** May 2024 – August 2024

* Designed and Developed back-end enhancements for Marvel Platform by designing and implementing efficient algorithms using **Python** and **NestJS**
* Implemented RESTful APIs for a robust model management system using Python and NestJS, facilitating model creation, management, fine-tuning, and evaluation with detailed logging
* Developed an end-to-end model evaluation system with advanced metrics, leveraging **AWS S3** for golden file storage to streamline validation processes

**BitMart Jersey City, NJ**

***Data Analyst Intern, Trading Operations*** December 2023 – May 2024

* Extracted and tracked weekly data of crypto transaction by analyzing deposit/withdraw users and amount via different channel payment through **Excel**. Visualized fiat data using **SQL** and **Python** through **Superset,** generating report using **Tableau**
* Designed promotional activities with payment companies to improve **User Experience** and **increase new users 300%**
* ETL Management, Data cleaning & Integrity: Utilized SQL for crypto trading data cleaning, managed **ETL** processes, and maintained data integrity using **Azure Blob Storage**
* Designed and implemented systems to monitor and set up alerts for real-time news and announcements with potential market impact and other exchanges like Binance, Coinbase, OKX

**NetEase (NASDAQ: NTES) Beijing, China**

***Data Scientist, Strategic Operation*** February 2023 – August 2023

* Analyzed user data using **HiveSQL** to identify opportunities for user growth and produced analysis reports; designed core metrics and built user portrait
* Established an automated data processing template for weekly TMK data in Excel through **Alteryx** to calculate the performance of sales staff, improving data efficiency by **50%**
* Building efficient data pipelines using **PySpark**, collaborating closely with cross-functional teams to ensure timely and accurate delivery of data resulting in more accurate business decisions and improved operational efficiency

**JD.com (China’s Largest e-commerce, NASDAQ: JD) Beijing, China**

***Data Engineer*** July 2021 – February 2023

* Develop data collection, storage, and processing models, including sourcing, loading, transformation, and extraction using AWS internal tools such as **S3, Redshift, Athena, SageMaker**
* Design data gathering, mapping, and processing pipeline and procedures using AWS data technologies with advanced SOL queries
* Perform data analysis and statistical modeling with Python to provide deep-dive analysis into key **O2O** business metrics and drive business decisions
* Build machine learning model with open source packages to detect anomalous customer usage and recommendation system for customer outreach programs, which improved recommendations accuracy by at least 20% average

***Business Intelligence Engineer Intern*** May 2020 – August 2020

* Develop a data pipeline in PySpark and prepare the data for an model calculating CLV(Customer Life Value).
* Designed and implemented email campaigns and **A/B testing** in Mailchimp, collaborating with product teams on new features, establishing key metrics, and calculating test parameters, resulting in a significant **23.1%** increase in click-through rate, which enhanced ROI by **16.3%**

**TECHNICAL CAPABILITIES**

**Programming:** SQL((MySQL, PostgreSQL),Python (Numpy, Pandas, Scikit-Learn, PyTorch), R, AWS(DynamoDB, EventBridge, Kinesis, Lambda, SQS), Azure

**Data Tools:** Tableau, Power BI, Alteryx, Snowflakes, PySpark, Advance MS Excel

**Data Science Methods:** A/B Testing, Data Visualization, Machine Learning, Deep Learning, Data Warehousing, Applied Statistics, Natural Language Processing