

Zhuoran (Lucy) Sun

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EDUCATION

Carnegie Mellon University

Master of Computational Data Science (Analytics Track)

Cumulative GPA: **4.08/4.0**

Relevant Courses (Fall 2024): Machine Learning for Signal Processing

Pittsburgh, PA

Expected: Dec 2025

Emory University

Bachelor of Business Administration, Information Systems & Operations Management

Double Major: Mathematics and Computer Science Joint Major

Cumulative GPA: **3.95/4.0** (High Distinction, ISOM Distinction Award, Beta Gamma Sigma)

Relevant Courses: Optimization, Numerical Analysis, Database Systems, Machine Learning, Data Mining

Atlanta, GA

May 2021

Coursera Certificates: Deep Learning Specialization, Machine Learning, Pricing Options with Mathematical Models, Financial Engineering and Risk Management **FINRA**: SIE, Series 7 & 63

WORK EXPERIENCE

Truist Securities

Quantitative Research Associate

Quantitative Research Analyst

Quantitative Research Intern

Atlanta, GA

Apr. 2024 – June 2024

July 2021 – Apr. 2024

June 2020 – Aug. 2020

- Performed **statistical and time-series analysis** on trading signals from RFQ for electronic trading on 3+ yrs data
- **Automated** fixed income trading desks' daily profit and risk reporting process in python and Snowflake database
- Managed version control using **GitLab** and developed automated pipelines for periodic backups of models and reports
- Report to senior management on credit trading and municipal trading businesses with **Tableau** Dashboards
- **Optimized SQL queries** by 70% efficiency when migrating data from sql server to Snowflake and updating processes
- Developed, managed and distributed Python package for data manipulations in Snowflake database for research
- Built RUNZ, an **event-driven** bond price change listener, with Bloomberg Data API and **Spring Boot** framework
- Created user-defined functions and procedures for bond pricing models in Snowflake with SQL and Java
- Managed reconciliation between reporting systems and databases to ensure correct data flow of trading activities

Computer Science Department, Emory University

Research Assistant

Atlanta, GA

Aug. 2019 – July 2020

- Analyzed data from B2W, a leading e-commerce platform in Latin America, mentored by Professor Nosayba El-Sayed
- Probed in customer behavior by analyzing and predicting 40m+ cart status to improve recommendation algorithms
- Performed time-series, random forest and DBSCAN on attributes: time, price and sku ids to predict database volume
- Paper accepted: *OLTP In Real Life: A Large-scale Study of Database Behavior in Modern Online Retail* at MASCOTS 2021

Emory Student Digital Life

Student Technology Support

Atlanta, GA

Aug. 2019 – May 2021

- Provided technical support and assistance for a variety of hardware and software issues on student-owned devices
- Configured WiFi connections on campus, troubleshoot operating systems, remove virus and repair hardware

The Emory Wheel

E-system Developer & Salesperson

Atlanta, GA

Sept. 2017 – June 2020

- Developed an online sales system, using **Django**, a python website structure, for the management of the business team
- Regulated communication with 100+ clients, generated \$1000+ sales revenue each semester to support management

Business-Intelligence of Oriental Nations Corporation

Data Analyst

Daqing, China

Jun. 2019 – Aug. 2019

- Cleaned and maintained the integrity of project data in **Hadoop**, including data storage, manipulation, and analysis
- Provided data support to the product manager for a business-intelligent report developed for the city's government

LEADERSHIP & COMMUNITY INVOLVEMENT

Stream Chinese Musical Ensemble, Founder & Performer

Jan. 2018 – May 2021

- Founded the ensemble, recruited more than 10 people, performed Guzheng, managed rehearsals and recitals

Skills

Programming Languages: Python, SQL, R, Java, Matlab, C, Latex

Software: Tableau, Git, Azure, PyTorch, Sklearn, Matplotlib, Django, Spring Boot, Snowflake, Databases

Data Analytics: Time-series, Machine learning, Deep Learning, Reinforcement Learning, Financial Risk Management