

# Longcong Xu

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## EDUCATION

### Columbia University

*Master of Science in Data Science, GPA: 3.7/4.0*

Courses: Advanced Algorithms, Computer Systems, Deep Learning, NLP, Artificial Intelligence, Statistical Modeling

New York, NY

Expected Dec 2023

### University of Illinois at Urbana-Champaign

*Bachelor of Arts in Economics, Minor in Computer Science, GPA: 4.0/4.0*

Courses: Data Structures, Discrete Structures, Data Mining, Cloud Computing Applications

Honors: Dean's list all semesters, Summa Cum Laude.

Champaign, IL

May 2022

## WORK EXPERIENCE

### BlocPower Energy Services

*Data Scientist Intern*

- Created 5 API data pipelines, reducing 4+ hours of manual data fetching, resulting in enhanced customer personas
- Unified 3 TBs of energy consumption datasets using spatial joins, resulting in 8 different analytical visualizations
- Conducted thorough ETL on the merged dataset, deriving 1K bias correction coefficients archetypes between models

New York, NY

May 2023 - Present

### University of Illinois at Urbana-Champaign

*Research Assistant*

- Leveraged Convolutional Neural Networks on 20GB image dataset, facilitating 15% improvement in staff evaluation
- Categorized 1K+ vending machines, identifying optimal ones for price elasticity experiments based on key attributes
- Streamlined drivers' routes across ten cities, achieving a 20% boost in operational inventory efficiency

Champaign, IL

Jan 2022 - May 2022

### People's Insurance Company of China (PICC)

*Data Scientist Intern*

- Applied Gray modeling, LASSO regression to predict two-quarter insurance metrics, aligning with client company
- Analyzed 30 driving attributes to refine 2 models, evaluating drivers' skills and pinpointing accident risk factors

Hangzhou, CH

Jul 2021 - Aug 2021

## ACADEMIC PROJECTS

### Work search process sharing platform

- Added user-friendly features (like, comment, favorite) for sharing job opportunities on 250+ company showcases
- Engineered website's database structure using 3 ER diagrams, enhancing the relational model with 8 entities
- Deployed robust database via Flask and SQLAlchemy; crafted intuitive 5 front-end pages for better UX design

### Pioneering Data Science Venture Capital Project

- Leveraged Zenrows, Beautiful Soup, Selenium for efficient web crawling; transformed data into structured format.
- Conducted Data Integrity and Quality Testing on 13GB of crawled dataset using BART model and ROUGE statistics
- Extracted essential article information for analysis, aiding in crafting over 55+ private equity investor profiles
- Utilized LDA, NER, and word cloud technologies despite tight schedule, proficiently developing the profiles

## SKILLS

- Coding: Python, Java, C++, Swift, JavaScript, HTML, CSS
- Development: MVC Architecture, CI/CD, Flask, GCP, AWS, Docker, Packaging, Linux, GitHub, Bash
- Data Engineering: Data Pipelines, ETL, OLAP, AWS, DBT, Spark, Hadoop, Mapper-Reduce, Kafka, Cloud Data Warehouses (Google BigQuery), PostgreSQL, MySQL
- Data Science: Regression, Classification, Time Series, LLMs, NLP, Image Processing, Tensorflow, PyTorch
- Data Visualization and Reporting: Matplotlib, Seaborn, ggplot2, Power BI, Tableau, AWS QuickSight