CURT LI

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Education

New York University — **Expected May 2028**
B.S. in Applied Math — *Sep 2024 – May 2025*
B.A. in Computer and Data Science — *Sep 2025 – Present*
New York, NY

Coursework: Data Structures and Algorithms(python), Linear Algebra, Principles of Data Science, Computer Systems Org
Activity & Awards: Applied Math Club, Machine Learning Club

Experience

Hunan University — **June 2023 – May 2024**
Research Assistant — *Beijing, China*

- **Researched Mobility as a Service (MaaS) for Beijing's public transit**, improving data accuracy by 25% through refined survey design and Python-based data processing.
- **Analyzed survey data from 1,000+ commuters** using Python (Pandas, NumPy), uncovering that 60% preferred integrated multi-modal transport options.
- **Developed Python-driven simulations** projecting a 15% reduction in travel time with optimized MaaS integration.

Projects

COMAP (Consortium for Mathematics and its Application) — **November 2022**
Attendee — *Beijing, China*

- **Predicted Future CO_2 and Temperature Trends:** Analyzed CO_2 concentration and temperature data (1959–2021) using ARIMA and LSTM models, forecasting significant climate changes by 2100.
- **Established CO_2-Temperature Correlation:** Validated a strong positive correlation between CO_2 levels and temperature increases through linear regression and statistical testing.
- **Published Findings for Broader Awareness:** Summarized research in *Scientific Today* to educate and inspire action on climate change predictions.

Class Schedule Planner – NYU Data Visualization VIP Program — **Spring 2025**
New York, NY

- Developed a Python application that allows users to input weekly class data and generates a visual grid-based schedule layout
- Designed the system to accommodate multiple overlapping class times, producing a clean and user-friendly weekly timetable
- Built for and tested by NYU students to streamline academic planning

Skills

Computer Skills: Python | Java | C | HTML | R

Languages: Mandarin (Native), English (Fluent)

Concepts: Data Analysis, Objective Programming, Mathematical Modelling