YU QIAO CHEN (TOM)

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Education

Baruch College CUNY   08/2019 - 12/2020
Master of Science, Information Systems, concentration in Data Analytics | GPA 3.69

Hunter College CUNY   09/2014 - 05/2019
Bachelor of Arts, Geography | Bachelor of Arts, Chinese | GPA 3.8

Experience

Data & GIS Analyst · Metropolitan Transportation Authority   09/2022 – Present
- Developed PowerBI dashboards using MTA source systems' data to measure project performance for MTA's Capital Program. Tasks include data acquisition, data pipeline creation, data visualization, application testing, dataset maintenance, dashboard maintenance, user manual documentation and report creation.
- Developed automation spatial analysis tool using Python and ArcGIS Pro to assign political districts information (e.g., city council, state senate) to MTA's assets records.
- Participated in the redesign of Master Project List SQL Database by analyzing tables, data type, and entity relationships between various source systems. Updated technical documents and diagrams accordingly.

Associate EP (GIS & Analytics) · Consolidated Edison Company of New York   12/2020 – 09/2022
GIS Analyst Aide · Consolidated Edison Company of New York   01/2019 – 12/2020
- Managed and maintained the Pipeline Integrity Information Management System (PIIMS) as part of the Pipeline and Hazardous Materials Safety Administration (PHMSA) regulatory requirements. Assignments include managing database access, implementing maintenance procedures, performing QA/QC tasks, ensuring data integrity, and entering up-to-date gas transmission data.
- Utilized the Kiefner Risk Model to analyze, evaluate and rank gas transmission pipeline risk scores and failure consequences.
- Conducted data and spatial analysis using internal and external datasets for various gas integrity initiatives to identify threats in the gas transmission system. Assessed identified threats subsequently and developed mitigation plans and recommendations accordingly.
- Supported the development of CECONY's Enterprise Geographic Information System and gas work management system by producing a unified Gas Transmission dataset combined from different internal systems for them.
- Led a document metadata maintenance effort for over 75,000 Gas Transmission project files.
- Supervised two college interns by assigning work tasks, monitoring their progresses, and providing feedbacks on their performances.

Geographic Research Intern · New York City Department of Sanitation   06/2018 - 08/2018
- Built an address locator from public data to geocode trash set-out locations for over 100 schools to increase field inspection efficiency.
- Conducted spatial analysis using open data to research the diversion rate of various NYC neighborhoods.
- Created maps for various NYC Recycling Programs to graphically illustrate the distribution and quantity of the programs' participants.
- Conducted geographic data validation for over 300 bin delivery addresses of the NYC Organic Recycling Program.

Geographic Analyst Intern / Census Employee · New York City Department of City Planning   01/2018 - 06/2018
- Participated in the preparation of the 2020 U.S. Decennial Census survey form mailing list for New York City. Task include validating the quantity of housing units for over 1,000 addresses through field visits and internet research.
- Conducted research on addresses, streets, and properties to update Place Address Directory (PAD) with accurate addresses and building identification numbers for use in Geographic Online Address Translator (GOAT).

Skills

ESRI ArcGIS Suite | QGIS | ENVI | SQL | Python | Tableau | PowerBI | Power Automate | Microsoft Office Suite