Michelle Ho

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Experience

Recurse Center
Self-guided coding retreat (November 2018 – February 2019)
- Built a map-based road-trip blog using Jekyll, Mapbox GL JS, and CARTO VL (michellemho.github.io)
- Developed a "Where To Meet" tool using OpenTripPlanner routing engine, Mapbox, and Turf.js to determine the best location to meet based on travel times.
- Created d3.js interactive data visualizations for a neighborhood comparison dashboard.
- Completed Stanford's online course *Algorithms: Design and Analysis.*

CARTO
Data Scientist (February 2017 – November 2018)
Research Intern (August 2016 – February 2017)
- Developed CARTO's Data Observatory, a repository of census data, by writing ETL processes using the Luigi pipeline framework to download data to a S3 bucket, attach metadata to variables, join geographic data to numeric data, and describe a hierarchy of data by valid normalization relationships. This work eases the user's final experience of querying census data within CARTO.
- Developed proofs of concept of geospatial analysis for clients and prospects, including creating spatially constrained regions for sales territories, geographically weighted regression for site selection, and detecting hotspots and outliers in traffic data.
- Contributed to cartoframes Python library by writing tests and methods that integrate CARTO APIs with Pandas for use in a Juypter notebook.
- Worked directly with clients to build custom data dashboards for evaluating real estate opportunities in NYC based on proximity to facilities, amenities, zoning, and other spatial features.

NY County District Attorney
Technology Analyst (November 2014 - August 2016)
Trial Preparation Assistant (May 2014 - November 2014)
- Enhanced criminal investigations with data collection, analysis, and visualization using tools including i2 Analyst's Notebook, ArcGIS, and Excel.
- Executed search warrants on mobile devices using the digital forensics tool Cellebrite.
- Prepared and testified on demonstrative evidence for misdemeanor trials, felony trials, and grand jury.

Education

New York University – Center for Urban Science and Progress   New York, NY
Master of Science in Applied Urban Science and Informatics, August 2017   GPA 3.85/4.00
Mayor's Graduate Scholarship Program (MGSP) for city agency employees

Washington University in St. Louis   St. Louis, MO
Bachelor of Arts, December 2012   GPA 3.76/4.00
Majors: Economics and International Studies

Technical Skills

Programming Languages: Python, Javascript
Frameworks and Tools: PostgreSQL, PostGIS, CARTO, Mapbox, ArcGIS, QGIS, d3.js, HTML, CSS
Languages: Advanced Mandarin, intermediate Spanish, familiar with Cantonese