

Shane Fitzpatrick

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EDUCATION & HONORS

Binghamton University, State University of New York, Harpur College of Arts and Sciences

Binghamton, NY

Bachelor of Arts in Economics, Minor in Digital and Data Studies

Expected May 2025

- Developed proficiency in econometrics, Python economic modeling, R statistical analysis, SQL databases, and ethical data visualization practices.

TECHNICAL SKILLS

- Programming & Data Analysis: Python (Pandas, NumPy, Matplotlib, Scikit-Learn), SQL, R, Tableau, HTML
- Geospatial & Visualization: ArcGIS, Geopandas, Folium, Seaborn
- Machine Learning & Stats: Linear, & OLS Regression, Random Forest, ANOVA
- Tools: Ubuntu, FRED API, Web Scraping, Excel (VLOOKUP, PivotTables), Google Suite

PROJECTS & RESEARCH EXPERIENCE

Predictive Modeling of Broome County Housing Market (Python, SQL, FRED API, GIS) – In Progress

Binghamton University | Expected Completion: May 2025

- Developed machine learning model predicting home values with Zillow & FRED data.
- Analyzed economic indicators and policy impacts on housing market trends.
- Created GIS web application mapping student housing and local properties.

Bikeshare Data Analysis & Optimization (Python, Pandas, Matplotlib, Statsmodels)

- Performed data cleaning, feature engineering, and visualization of NYC ridership trends.
- Built a regression model predicting station demand for strategic resource allocation.

Data-Driven Analysis of Car Specifications and Consumer Trends (R, ggplot2, ANOVA)

- Conducted statistical analyses exploring relationships between car specs and market preferences.
- Visualized insights with ggplot2, emphasizing consumer-targeted vehicle recommendations.

PROFESSIONAL EXPERIENCE

Photo Finish Auto Detailing | Huntington, NY

Co-founder/Interior Detailing Specialist | Summer 2024-Present

- Managed detailing services, customer interactions, scheduling, and operations.
- Maintained high client satisfaction through quality service.

Parking Systems | Glen Cove, NY

Valet Attendant | Summer 2021- Present

- Provided excellent customer service and efficient vehicle management
- Operated comprehensive valet databases ensuring smooth service delivery

EXTRACURRICULAR INVOLVEMENT

Alpha Kappa Psi Professional Business Fraternity | Binghamton, NY

Marketing Committee Chair & Active Member | Spring 2023 – Fall 2025

- Directed marketing initiatives; created engaging content enhancing fraternity visibility
- Led strategy sessions for innovative campaigns using analytics for performance optimization.

ADDITIONAL INFORMATION

- **Interests:** weightlifting/functional training & sports nutrition, automotive maintenance/modifying (suspension work, repairs), computer parts/building, photography, thrifting
- **Languages:** Seal of Biliteracy in Italian (Spring 2021)