

Alec Cohen

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SUMMARY

M.S. Information Systems candidate and Computer Science graduate with applied experience in data mining, regression modeling, and NLP. Skilled in cleaning, analyzing, and visualizing real-world data and integrating external data sources into applications. Seeking data analytics or information systems roles.

EDUCATION

Binghamton University, State University of New York | Vestal, NY

M.S. Information Systems | Expected May 2027

SUNY Polytechnic Institute | Utica, NY

B.S. Computer Science; Minor in Business Management | May 2025

Relevant coursework: Data Mining, Information & Knowledge Management, Operating Systems & Networking, Finite Math.

DATA & TECHNICAL SKILLS

Languages: Python, SQL, Java, C, C++

Databases: PostgreSQL, MongoDB, SQLite; SQLAlchemy ORM

Data mining & ML: Linear regression, K-means clustering, LDA topic modeling, NLP with BERT

Data processing: Pandas, REST APIs, BeautifulSoup, RSS ingestion with feedparser

Tools & systems: Git/GitHub, Postman, Windows, macOS

PROJECTS

Traffic Congestion Analysis Using Weather & Regression

Python, Pandas, Scikit-learn

- Merged traffic and weather datasets; cleaned timestamps, missing values, and outliers. Engineered time, temperature, snow, and weather-category features.
- Built and evaluated a linear regression model; used heatmaps, scatter plots, and bar charts to interpret congestion patterns and model performance.

Topic Modeling of Social Media Posts (#MeToo)

Python, NLP, LDA

- Preprocessed Twitter data through tokenization, stop-word removal, and lemmatization; applied LDA to identify dominant discussion themes.
- Interpreted topic results with word clouds and topic distribution analysis.

IroniTuning | Data-Driven Web App Capstone

Flask, SQLAlchemy, BeautifulSoup, feedparser

- Built a web application to ingest and parse automotive RSS feeds; designed relational schemas and persisted structured data with SQLAlchemy.
- Applied caching to reduce duplicate network calls and improve data reliability.

EXPERIENCE

Webistix Consulting Inc. | Holbrook, NY

Hardware Engineer (Level 1) | Jun 2019 - Aug 2019

- Performed component testing and validation; documented findings to support issue tracking.

Additional experience: Harbor Freight, At Home, 89 North Music Venue.

CERTIFICATIONS & ACTIVITIES

Google Project Management Certificate | Coursera

Secretary, Real-Estate Investment Club (2023-2024); Varsity Tennis (2018-2021); NYSSMA Percussion (2012-2019).