Nick Italiano

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EDUCATION

- **Manhattan College** — Bronx, NY
  Master of Science in Applied Mathematics– Data Analytics — *August 2015 – August 2019*

- **Manhattan College** — Bronx, NY
  Bachelor of Science in Mechanical Engineering — *January 2011 – June 2015*

EXPERIENCE

- **Music Hackathon/Music Community Lab** — Manhattan, NY
  Freelance Data Engineer — *August 2019 - Present*
  - **MooTweet–Brand Improvement and Topic Tracking**: Developed Real-time Twitter Sentiment Analysis Web Application for the Music Hackathon/Music Community Lab organization to rebrand under one Twitter account. Python, Heroku, and Flask were integrated with *NLP(Natural Language Processing)* methods. Automated data backups are processed daily into AWS(Amazon Web Services) for storage and analytics.
  - **ZooTweet–Enhanced Brand Improvement and Topic Tracking**: Cloud version that leverages Apache's Kafka's storage scalability, which is already used in real-time Twitter data streaming apps.
  - **Arctic Code Vault Contributor**: Contributed *mcl-mh-brand-sentiment-analysis-app* repository to the 2020 GitHub Archive Program, storing the code within arctic permafrost in Svalbard, Norway for the next 1000 years.

- **Self-employed** — Staten Island, NY
  Data Scientist | Data Engineer — *March 2017 - July 2019*
  - **Data Consumption**: 3+ years of cloud architecture experience– focusing on *MIR(Music Information Retrieval)* applications– that support APIs, Predictive Analytics, and Data Lakes. Agile(Scrumban), CD/CI(continuous development/integration), and Python testing frameworks were implemented.
  - **Data Storage**: Administered the design, security, and management of AWS S3, EC2, Athena, EMR, and Redshift instances. Airflow enabled daily consumption via data pipelines, ETL metadata injections, and Redshift queries.
  - **Predictive Analytics & Machine Learning**: Created *POC(Proof of Concept)* recommendation apps to enhance the musical content discovery process. The R-Shiny apps used collaborative filtering with Spotify's streaming APIs.

- **Manhattan College** — Bronx, NY
  Graduate Research Consultant — *October 2015 - July 2016*
  - **Big Sagebrush Data Visualization**: Developed data visualization for researchers at Manhattan College. Prior attempts to illustrate the unique growth of *Artemisia tridentata(Big Sagebrush)* proved unsuccessful.
  - **SIAM Annual 2016 3D Digital Presentation**: Presented *Computation for Imaging in Biology* research and an interactive visualization demo– a conference first– at the SIAM(Society of Industrial and Applied Mathematics) Annual 2016 National Mathematics Conference.

- **Con Edison of New York** — Queens, NY
  Graduate Engineer/Analyst Aide — *March 2013 - May 2016*
  - **High Bay LED Retrofitting Project**: Managed Astoria Transformer Shop's LED retrofitting project that saved approximately $12,400 per year.
  - **Underground Transformer Unit Key Performance Indicators**: Created new, cost-saving KPIs(key performance indicators) for underground transformer(UGT) units that prompted the decommissioning of 3 critical UGT processes after the Q3 meeting with the VP of Electric Services.

PROJECTS

- **Cryptocurrency Dashboard**: POC, multi-page data product– that analyzes live cryptocurrency services for pricing insights– using Dash frameworks, HTTPS login protocols, and real-time data streaming.
- **GO.io**: Developed a portfolio site for NYU law student who wanted to increase her personal brand. Client requested a similar design to nickitaliano.io.; however, one that showcases her extensive entrepreneurial and legal expertise.
- **Discover Weekly Email Alert**: Built Spotify Weekly Discovery Pipeline using Gmail, AWS and Luigi. Expanded from author to forward a users Discover Weekly Playlist history via Chron.