

CODY J GILBERT

New York, NY

Github: github.com/cody-joe-gilbert | Website: codyjoe.com

For more information, see my website: codyjoe.com/resume

EDUCATION

New York University, Courant Institute (NYU) | New York, NY

May 2018 to May 2020

Master of Science in Computer Science

GPA: 3.8/4.0

Courses: Natural Language Processing, Machine Learning, Artificial Intelligence, Statistical Modeling, Advanced Databases, Big Data and Predictive Analytics, Programming Languages

North Carolina State University | Raleigh, NC

Aug 2011 to May 2015

Bachelor of Science in Nuclear Engineering

GPA: 4.0/4.0

EXPERIENCE

Full-Time Data Science Intern

Betterfin – New York, NY

Sep 2019 to Present

- Developed Python APIs to connect third-party CRM, open source databases (US Census, Bureau of Labor Statistics, etc.) and local PostgreSQL database to construct a data pipeline for analytics
- Created a PostgreSQL function to combine trigram indexing and a custom logistic regression model to create a fast fuzzy searching method for identifying unique businesses used to generate leads
- Built an online Flask-based dashboard for BI reporting that automatically retrieved content from disparate data sources via custom API functions
- Aggregated, documented, performed ETL, and analyzed datasets comprising of 150GB of data to deliver insights used by the Sales and Marketing teams to create over 20,000 new leads
- Developed automatic data profiling, analysis tools, and interactive Jupyter widgets to explore data for ETL and data mining which handle big data with abstractions to use different sources via REST APIs

Research Assistant to Dr. Benjamin Peherstorfer

Jan 2019 to July 2019

New York University – New York, NY

- Researched PDE-based model reduction methods such as Proper Orthogonal Decomposition (“POD”), Discrete Empirical Interpolation Method (“DEIM”), and Adaptive-DEIM implemented using MATLAB

Recitation Leader for Fluid Dynamics

Jan 2019 to May 2019

New York University – New York, NY

- Led a weekly recitation by presenting material to 15-20 undergraduate students
- Held weekly office hours to provide more individualized support and graded homework

Nuclear Design Engineer (Nuclear Engineer II)

June 2015 to Jan 2018

Duke Energy Corporation – Charlotte, NC

- Implemented machine learning algorithms to estimate reactor coolant system flow rates
- Developed machine learning algorithms to improve accuracy of engineering calculations
- Derived the solutions to neutronic diffusion equations using a Fortran-based interface
- Developed nuclear fuel reload design using Python and a Fortran-based interface
- Implemented all data-driven and machine learning solutions using Python and Fortran

SKILLS

Programming: Python, C/C++, R, SQL (Postgres), Matlab, Linux, Hadoop, Spark, Scala, Fortran, LaTeX, Go, Flask